

# TALES OF THE FROZEN NORTH





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TO THE  
BRAVE, DARING AND HEROIC SPIRITS,

WHO

THROUGH PERILOUS EXPLORATIONS, DEFYING HUNGER, COLD  
UNTOLD SUFFERINGS AND DEATH ITSELF, ATTEMPTED  
TO UNFATHOM THE GREAT MYSTERY BEYOND  
THE ICY BARRIERS OF THE NORTH,

THIS VOLUME IS

RESPECTFULLY DEDICATED.







[The King of mysteries...]

# Thrilling Tales of the Frozen North

A GRAPHIC ACCOUNT OF  
THE HEROIC EFFORTS  
OF INTREPID AND DARING  
TRAVELERS AND EXPLOR-  
ERS IN THE LANDS OF  
THE MIDNIGHT SUN. ∴



AN IMPRESSIVE RECITAL OF THE AD-  
VENTURES ENCOUNTERED BY THE  
MEN WHO HAVE PENETRATED NATURE'S  
MOST MYSTERIOUS REALM AND GAUGED  
HER MIGHTY SECRETS. ∴ ∴ ∴

By

Captain William H. Wharton



MDCCCXCIII

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THE deep mystery buried in that portion of the Earth farthest removed from civilization, and shadowed by the insurmountable icy barriers which encircle it on all sides, has been for many generations past a subject of vital and absorbing interest. A sort of interest approximating to fascination has ever been manifested in the Arctic or polar regions, and the question of an open polar sea beyond its icy barriers one that has exercised the scientific world for ages.

There have been, and ever will be, gallant, adventurous spirits who are impelled to, rather than deterred from, enterprises by the hazards, the dangers, and the sufferings that stand in the way. Whatever may be thought of the wisdom of those who thus brave trial, suffering, peril—and death itself—in striving to fathom the mysteries of the Arctic Circle, no one will fail to admire the daring men themselves or to manifest a warm interest in their wonderful exploits.

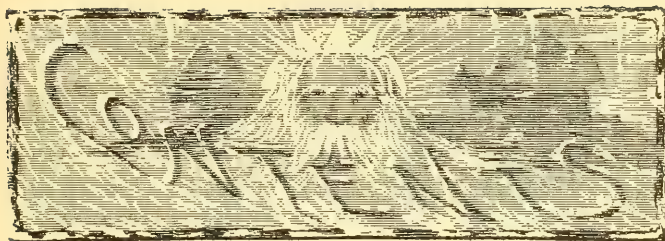
In presenting this work to the public the author would state that he has not given a series of disjointed sketches of the successive expeditions to the Arctic Regions, but a connected, consecutive narrative, showing how, step by step, the difficulties environing Arctic navigation have been met and overcome, and discoveries have been made which have disclosed, one by one, many of the wonderful secrets of that region of mystery which surrounds the North Pole.

If those who read these pages shall find in the events, the incidents, the experiences, the perils and remarkable escapes, the actual disasters, and the results of the researches herein recorded, a little of the absorbing interest, the absolute fascination, which has held the author's mind enchain'd to the subject throughout, and caused him to forget the labor in the pleasures of the chronicler's task, the book will have served its purpose—the amusement and the instruction of the public.

We believe that none will arise from a perusal of these unpretending annals without feeling that the time devoted to them has been well spent; and we also feel assured that those who read the book through will lay it down with a single regret that they have reached the end, and will look forward with eager eyes to still further developments in that most unattractive in itself, and yet strangely fascinating, portion of God's universe. That there will be such further developments is more than probable. Despite suffering, peril, disaster, and death, there will ever be sanguine projectors and daring explorers who will not give over the idea until every attainable portion of the Arctic Regions shall have been fully explored, and the hidden secret so long enshrouded in deep mystery shall have been disclosed and laid bare to all the nations of the earth.







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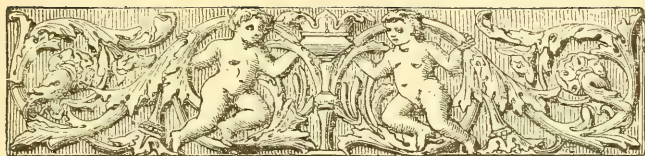
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## TECHNICAL TERMS

### PECULIAR TO THE NAVIGATION AMONG ICE.

**BAY-ICE.** — Ice newly formed upon the surface of the sea. The expression is, however, applied also to ice a foot or two in thickness.

**BESET.** — The situation of a ship when closely surrounded by ice.

**BIGHT.** — An indentation in a floe of ice, like a bay, by which name it is sometimes called.

**BLINK.** — A peculiar brightness in the atmosphere, often assuming an arch-like form, which is generally perceptible over ice or land covered with snow. The blink of land, as well as that over large quantities of ice, is usually of a yellowish cast.

**BORE.** — The operation of "boring" through loose ice consists in entering it under a press of sail, and forcing the ship through by separating the masses.

**BRASH.** — Ice broken up into small fragments.

**CACHE.** — Literally a hiding-place. The places of deposit of provision in Arctic travel are so called.

**CALF.** — A mass of ice lying under a floe near its margin, and, when disengaged from that position, rising with violence to the surface of the water. — See **TONGUE**.

**CROW'S NEST.** — A small circular house, like a cask, fixed at the mast-head, in which the look-out man sits, either to guide the ship through the ice, or to give notice of whales.

**DOCK.** — In a floe may be natural or artificial: the former being simply a small "bight," in which a ship is placed to secure her from the danger of external pressure; and the latter, a square space cut out with saws for a similar purpose.

**FIELD.** — A sheet of ice generally of great thickness, and of .00 great extent to be seen over from a ship's masthead.

**FIORD.** — An abrupt opening in the coast-line admitting the sea

**FLOE.** — The same as a field, except that its extent can be distinguished from a ship's masthead. A "bay-floe" is a floe of ice newly formed.

**FLOE-PIECE.** — An expression generally applied to small pieces of floes, not more than a furlong square.

**GLACIER.** — A mass of ice derived from the atmosphere, sometimes abutting on the sea.

**HUMMOCK.** — A mass of ice rising to a considerable height above the



general level of a floe, and forming a part of it. Hummoecks are originally raised by the pressure of floes against each other.

**ICE-ANCHOR.** — A hook or grapnel adapted to take hold upon ice.

**ICE-BELT.** — A continued margin of ice, which, in high northern latitudes, adheres to the coast above the ordinary level of the sea.

**ICEBERG.** — A large floating mass of ice detached from a glacier.

**ICE-FOOT.** — The Danish name of the limited ice-belt of the more southern coast.

**LAND-ICE.** — Ice attached to the land, either in floes or in heavy grounded masses lying near the shore.

**LANE OF WATER.** — A narrow channel among the masses of ice, through which a boat or ship may pass.

**LEAD.** — A channel through the ice. A ship is said to "take the right lead" when she follows a channel conducting her into a more navigable sea, and *vice versâ*.

**NIPPED.** — The situation of a ship when forcibly pressed by ice on both sides.

**PACK.** — A large body of ice, consisting of separate masses, lying close together, and whose extent cannot be seen.

**PANCAKE-ICE.** — Newly-formed ice, assuming the peculiar conformation of numberless patches of "sludge," and giving the surface of the sea the appearance of a handsome pavement.

**PATCH OF ICE.** — The same as a pack, but of small dimensions.

**PEMMICAN.** — Meat cured, pulverized, and mixed with fat, containing much nutriment in a small compass.

**SAILING-ICE.** — Ice of which the masses are so much separated as to allow a ship to sail among them.

**SLUDGE.** — Ice of the consistence of thick honey, offering little impediment to a ship while in this state, but greatly favoring the formation of a "bay-floe."

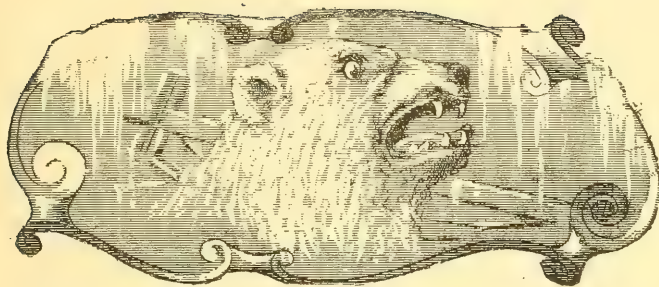
**STREAM.** — A long and narrow, but generally continuous, collection of loose ice.

**TONGUE.** — A mass of ice projecting under water from an iceberg or floe, and generally distinguishable at a considerable depth of smooth water. It differs from a "calf" in being fixed to, or a part of, the larger body.

**TRACKING.** — Towing along a margin of ice.

**WATER-SKY.** — A dark appearance in the sky, indicating "clear water" in that direction, and forming a striking contrast with the "blink" over land or ice.

**YOUNG-ICE.** — Nearly the same as "bay-ice," but generally applied to ice more recently formed than the latter.



## CHAPTER I.

ASPECTS OF THE ARCTIC REGIONS.—PHENOMENA.—THE ARCTIC OCEAN.—  
EARLIEST EXPLORERS.—THE NORTHMEN.—THE CABOTS.—THE CORTÉ-  
REALS.—SIR HUGH WILLOUGHBY.—FROBISHER.—SIR HUMPHREY GIL-  
BERT.—DAVIS.—BARENTZ.—HUDSON.—BAFFIN.

THE varied physical aspect of the globe offers as much to charm or awe the eye of man as to minister to his comfort and well-being. From the glowing heat and gorgeous vegetation of the torrid zone, we move through all gradations of climate and feature, to the frigid regions of either pole, where perpetual ice and a depressed temperature present an extraordinary contrast to the lands of the sun: from intensest heat we pass to intensest cold; from the sandy deserts of the south to the icy deserts of the north. Yet there is as much in the frozen zone to impress and elevate the mind of the beholder as in the countries where nature displays herself in rich and exuberant loveliness.

Beyond the seventieth degree of latitude not a tree meets the eye, wearied with the white waste of snow; forests, woods, even shrubs, have disappeared, and give place to a few lichens and creeping woody plants, which scantily clothe the indurated soil. Still, in the furthest north, nature claims her birthright of beauty; and in the brief and rapid summer she brings forth numerous

flowers and grasses to bloom for a few days, until again blasted by the swiftly-recurring winter.

In these regions certain mysterious phenomena exhibit their most powerful effects. Here is the point of attraction of the compass needle ; and here the dipping needle, which lies horizontal at the equator, points straight downwards. Slowly, in its cycle of nearly two thousand years, this centre or pole of magnetic attraction revolves in obedience to laws as yet unknown. Two degrees further toward the north is situated the pole of cold — a mystery like the former to science, but equally inciting to curiosity. If induction may be trusted, the pole of the earth is less cold than the latitudes fifteen degrees below it.

Round the shores and seas of the arctic regions ice ever accumulates : a circle of two thousand miles' diameter is occupied by frozen fields and flocs of vast extent, or piled high with hugest forms, awful yet fantastic as a dreamer's fancy. Mountain masses —

“ Whose blocks of sapphire seem to mortal eye  
Hewn from cerulean quarries in the sky,  
With glacier battlements that crowd the spheres,  
The slow creation of six thousand years,  
Amidst immensity they tower sublime,  
Winter's eternal palace, built by Time.”

Here the months are divided into long periods of daylight and darkness : for many weeks the sun sinks not below the horizon ; for three dreary months he appears not above it —

“ And morning comes, but comes not clad in light ;  
Uprisen day is but a paler night.”

But, in the absence of the great luminary, the vivid coruscations of the aurora borealis illuminate the wintry landscape, streaming across the skies in broad sheets of



light, flashing in multi-colored rays, or quivering in faint and feathery scintillations — a light that takes away the irksomeness of gloom, and makes the long night wondrous.

The desolate grandeur of the scene is in many parts increased by the entire absence of animated nature ; in others the dearth of vegetation is compensated by superabundance of animal life. Wrangell tells us that "countless herds of reindeer, elks, black bears, foxes, sables, and gray squirrels, fill the upland forests ; stone foxes and wolves roam over the low grounds. Enormous flights of swans, geese, and ducks, arrive in spring, and seek deserts where they may moult and build their nests in safety. Eagles, owls, and gulls, pursue their prey along the sea-coast ; ptarmigan run in troops among the bushes ; little snipes are busy along the brooks and in the morasses ; the social crows seek the neighborhood of men's habitations ; and when the sun shines in spring, one may even sometimes hear the cheerful note of the finch, and in autumn that of the thrush."

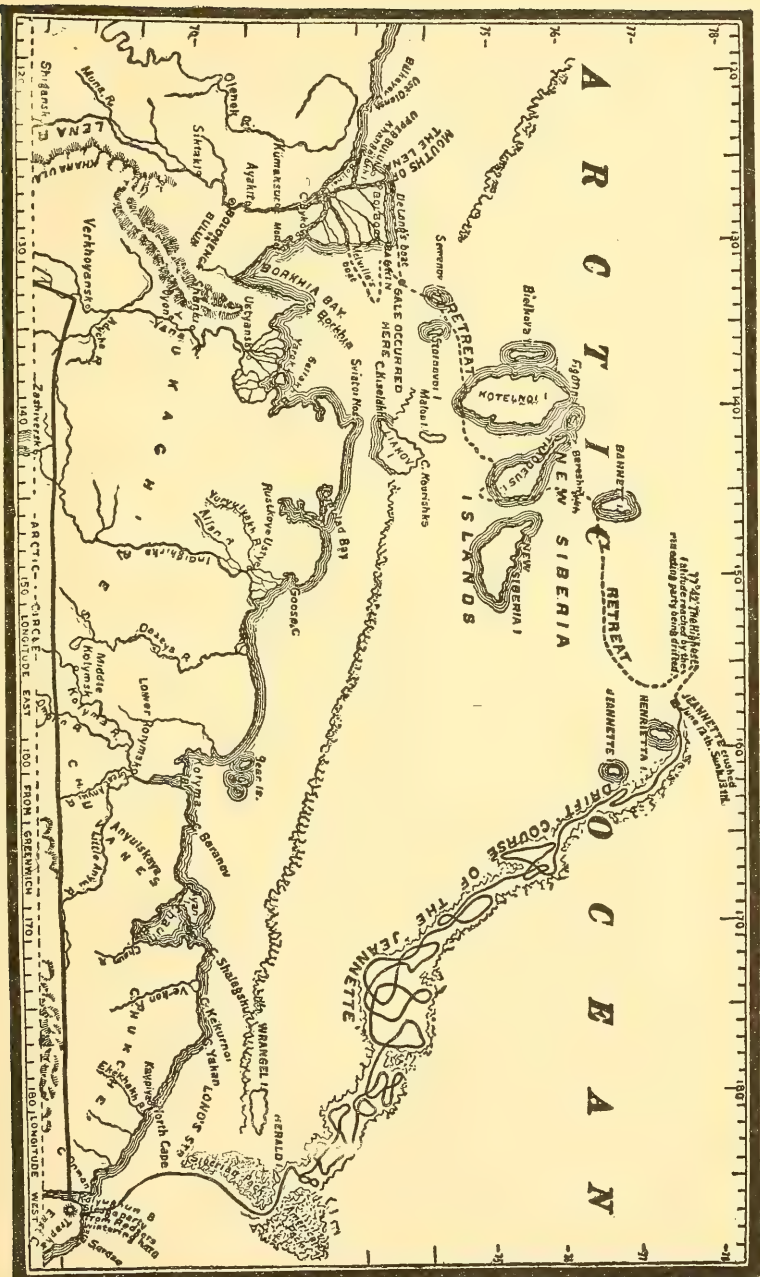
"There is," as observed by Lieutenant-Colonel Sabine, "a striking resemblance in the configuration of the northern coasts of the continents of Asia and America for several hundred miles on either side of Behring's Strait ; the general direction of the coast is the same in both continents, the latitude is nearly the same, and each has its attendant group of islands to the north : the Asiatic continent, those usually known as the New Siberian Islands ; and the American, those called by Sir Edward Parry the North Georgian Group, and since fitly named, from their discoverer, the Parry Islands. The resemblance includes the islands also, both in general character and latitude."

With respect to the Arctic Ocean, a late writer ex-

**plains:** "We may view this great polar sea as enclosed within a circle whose diameter is  $40^{\circ}$ , or two thousand four hundred geographical miles, and circumference seven thousand two hundred miles. On the Asiatic side of this sea are Nova Zembla and the New Siberian Islands, each extending to about the 76th degree of latitude. On the European and American sides are Spitzbergen, extending to about  $80^{\circ}$ , and a part of Old Greenland, whose northern extremity is yet unknown. Facing America is the large island washed by Regent's Inlet, Parry's or Melville's Islands, with some others, in latitude  $70^{\circ}$  to  $76^{\circ}$ , and beyond these nothing is known of any other land or islands; and if we may form an opinion, by inspecting the general chart of the earth, it would be that no islands exist which could in any shape obstruct navigation." It is to these regions, and the labors of which they have been the scene, that we have for a short period to direct our attention.

The history of Arctic explorations properly begins at a period earlier by several centuries than is generally believed. Careful researches promoted and carried on of late years by the Society of Northern Antiquaries of Copenhagen, and others interested in the subject, have established the fact, that Newfoundland, Greenland, and several parts of the American coast, were visited by the Scandinavians — the Northmen and Sea Kings of old — in the ninth and tenth centuries. While Alfred was engaged in expelling the Danes from England, and bestowing the rudiments of civilization on his country, and Charles the Bald was defending his kingdom against a host of competitors, the daring sea-rovers were forming settlements in Iceland.

One hundred and twenty-five years later, A. D. 1000, Leif Erickson, as many antiquarians believe, led the way to the westward, and landed on the shores of Mas



MAP SHOWING THE DRIFT OF THE "JEANNETTE."





achusetts, naming the country Vinland, from the wild vines which grew in the woods. These adventurers made their way also to a high northern latitude, and set up stones, carved with Runic inscriptions, with the date 1135, on Women's Islands—in latitude  $72^{\circ} 55'$ —Baffin's Bay, where they were discovered in 1824. The colonists on the eastern coast of this great bay made regular trips to Lancaster Sound and part of Barrow's Strait, in pursuit of fish "more than six centuries before the adventurous voyage of Parry," and carried on a trade with the settlers in Markland, as Nova Scotia was then called. Their numbers must have been considerable, for in Greenland there were three hundred homesteads or villages, and twenty churches and convents. They kept up intercourse with Europe until 1406, when it was interrupted by extraordinary accumulations of ice upon their coasts; and though the Danish government has made repeated attempts to ascertain their fate, it still remains in doubt; the supposition is, that all have perished from privation or violence of the natives. Spitzbergen, too, contained numerous colonists: graves are frequently met with on its shores; in one place Captain Buchan saw several thousands, the corpses of some of them as fresh as when first interred, preserved by the rigor of the climate.

These early explorers were unable to take full advantage of their American discoveries; this was reserved for a later period. "Intervening," observes Humboldt, "between two different stages of cultivation, the fifteenth century forms a transition epoch, belonging at once to the middle ages and to the commencement of modern times. It is the epoch of the greatest discoveries in geographical space, comprising almost all degrees of latitude, and almost every gradation of elevation of the earth's surface. To the inhabitants of Europe it

doubled the works of creation, while at the same time it offered to the intellect new and powerful incitements to the improvement of the natural sciences in their physical and mathematical departments."

As we approach the period here referred to, we find a new spirit at work ; no longer the boisterous adventurousness of the Northmen, but an earnest spirit of enterprise. In 1380, the Zeni, two Venetian navigators, voyaged into the north, ignorant of the fact that the Scandinavians had preceded them by three centuries, and brought home accounts of the countries they had seen. In 1497, during the reign of Henry VII., British enterprise was first directed to a region in which it has been subsequently developed to a degree without example ; and Cabot, or Cabota, the younger, landed at Labrador eighteen months before Columbus saw the mainland of tropical America. He contemplated also a voyage to the pole, and sailed up to  $67\frac{1}{2}^{\circ}$  of north latitude. It was thought scarcely possible that the newly-discovered continent stretched so far from north to south without a single opening to the westward, and the search for this became the prime object with mercantile adventurers, who hoped to find a way to the rich and gorgeous countries lying beyond.

In the year 1500, Gaspar Cortereal, a Portuguese, animated with the desire to emulate Columbus in making discoveries in the western world, set sail for that part of the globe, and reached the latitude of  $50^{\circ}$  north, whence he appears to have run as far as  $60^{\circ}$ . The account given of his voyage is very vague. After entrapping on board no less than fifty-seven of the natives of the western continent, there can be very little doubt for the purpose of making them slaves, he returned to Portugal, carrying them away with him. He arrived at Lisbon on the 8th of October, 1501. He sailed again the next season with two vessels, when, in entering a



strait, supposed to be that known since as Hudson's, the ships were separated by a storm. One of them returned home in safety, but, as if it were a retribution for his kidnapping the unfortunate aborigines of the country on his previous voyage, neither Gaspar Cortereal nor his crew returned again, nor could the slightest trace of their fate ever be discovered. Gaspar Cortereal had a brother named Miguel, who was much attached to him, and full of the same spirit of enterprise; -- he determined to set out in search of Gaspar.

In the early part of the spring of 1502, Miguel sailed from Lisbon with three vessels. On reaching the numerous straits and islets about Hudson's Bay, the ships separated with the intention of exploring each of them a particular inlet. This was an impolitic measure, as their union would have enabled them to give each other aid in case of distress, or to bring off the crew, should either of them chance to be shipwrecked on any of the numerous islands, either rock or ice, which abound in that dangerous navigation. The result was an unfortunate one. Two of the ships met at the point of rendezvous, and returned home in safety. The third, with Miguel Cortereal on board, shared the melancholy fate of the navigators of whom it had gone from Portugal expressly to get tidings, -- it never returned. The place where it perished, whether by storm, rock, ice, or famine, was never known. The two vessels which were so fortunate as to reach Lisbon reported the disaster, in addition to that which had been previously known. There yet remained a third brother, Vasco, who endeavored to obtain leave of the king to set out and try to discover his two absent brothers. The king refused him permission, upon the ground that the loss of two out of such an adventurous family was much greater than he could afford to sustain, in servants so enthusiastic and

noble-minded. Thus died the brothers Cortereal ; and this is all that is known of their fate to the present hour.

Sir Hugh Willoughby was sent out by the Muscovy Company with two ships to find a north-east passage "to Kathay and India ;" and pushed his way as far as Nova Zembla, from whence, being stopped by ice, he returned to a lower latitude, and in September, 1553, put in at the mouth of the river Arzina, in Lapland. A melancholy interest attended this event, little anticipated by the unfortunate leader when he wrote in his journal — " Thus remaining in this haven the space of a weeke, seeing the yeare farre spent, and also very evill wether — as frost, snowe, and haile, as though it had beene the deepe of winter, wee thought it best to winter there." The dreary season passed away, and in the following year some Russian fishermen found Sir Hugh and his crew all frozen to death. The other vessel, commanded by Richard Chancellor, reached Archangel, and opened the way for commercial intercourse with Russia.

Next in importance are the three voyages by Frobisher, in 1576–78. He discovered the entrance to Hudson's Strait, and explored that still known as Frobisher's, but failed in penetrating to the westward. Great hopes were excited by some lumps of yellow glistening ore which he brought home, and in his later voyages gold-mines were not less to be searched for than the north-west passage. The study of natural phenomena was not, however, altogether lost sight of, as appears by a passage from the instructions issued under the authority of Elizabeth for the gallant seaman's guidance. " Yf yt be possible," so runs the official document, " you shall leave some persons to winter in the straight, giving them instructions how they may observe the nature of the ayre and state of the countre, and what tyme of the yeare the straight is most free

from yce ; with who you shall leave a sufficient preparation of victualls and weapons, and also a pynnas, with a carpenter, and thyngs necessarie, so well as may be."

Sir Humphrey Gilbert's expedition to colonize Newfoundland soon followed. This naval commander was distinguished for his intellectual acquirements, his courage, and bold actions. He was nearly related to Sir Walter Raleigh. In 1578, he obtained full power from Queen Elizabeth to undertake a voyage of discovery on the continent of America, and to settle such parts as no Christian prince or his subjects could claim from previous possession. A discourse, written by him, and creditable to his talents, upon the practicability of a north-west passage, is extant in Hakluyt.

In 1583, Sir Humphrey left England, on his second voyage, with five ships, sailing out of Plymouth Sound on the 11th of June. On the 30th, four vessels were in sight of Newfoundland ; one of the ships, commanded by Captain Butler, and the property of Sir Walter, then Mr. Raleigh, having returned home on account of a contagious disorder breaking out on board. On the 3d of August they landed in Newfoundland, and took possession of the harbor of St. John's, in the name of the Queen of England. A discovery was made at the same time of a supposed silver-mine, by a Saxon miner, brought out on purpose in the squadron. The vessels remaining with Sir Humphrey at this time were the *Delight*, *Golden Hinde*, *Swallow*, and *Squirrel*. The largest vessel was but one hundred and twenty tons, while the smallest was only ten. The *Swallow* was sent home with the sick. Sir Humphrey then embarked in the *Squirrel*, of ten tons.

Sir Humphrey left the harbor of St. John's on the 20th of August. On the 27th, he was in latitude 44°, with fair weather. On the 29th a storm



arose, and the *Delight*, the largest vessel of the squadron, was lost. Sixteen only made their escape in the boat. The first appearance of change was a dense fog, which enveloped the ships, followed by a gale of wind, south by east. They could not see beyond the head of the vessel. The *Golden Hinde*, all of a sudden, got entangled among rocks and shoals. The *Delight* beat still further in among them. Finding the soundings constantly varied, a signal was made to the *Delight*, by the *Golden Hinde*, to stand out, but it remained unnoticed. She soon afterwards struck on a shoal, and her stern was quickly beat to pieces. This was a fatal blow to the prospects of Sir Humphrey.

The *Golden Hinde* and *Squirrel*, all now left of the five ships which originally set sail from Plymouth, stood east by south. The water shoaled, and then deepened from four to seven fathoms, and then shoaled to four or five again, with a very high sea. At the time the *Delight* went on the rocks, her boat was afloat at the stern, it having fortunately been hoisted out the day before, when the weather was fine, to pick up some birds which had been shot. Into this boat a part of the crew were, by great exertion, enabled to get, and to pick up others. The captain and a hundred of the crew perished with the ship; and besides the Saxon before mentioned, who said he had discovered the silver ore, a learned man from Buda, in Hungary, called Budæus on board, but whose name was Stephen Parmenius, who had written a Latin poem in praise of Sir Humphrey, and had gone out to write an account of the voyage, and what he saw, in the Latin tongue, was among the sufferers.

The bearing of Captain Browne, who had been transferred from the *Swallow* into the *Delight*, was, upon this occasion, of the most heroic character. When the fate

of the vessel was seen to be inevitable, he was advised to save himself by the boat, or, at least, to make the attempt. He spurned the counsel, refusing to set the example of deserting the ship and abandoning the larger portion of the crew, who could have no hope of escape. He continued to the last to exhort those on board not to give way to despair; and firmly upon the deck of his vessel he awaited, with magnanimous resignation, the termination of the catastrophe. He could not endure the apprehension of a reproach for leaving his ship, even when hope was extinguished. The master, named Richard Clarke, was one of those preserved in the boat.

During two days, in this destitute situation, and without provisions of any kind, they drifted before the tempest. It was feared the boat could not live much longer in such a sea unless lightened, and one of the party, by name Headley, proposed that lots should be drawn, and those who drew the four shortest of the number should be thrown overboard. Thus a better chance would be afforded to the survivors of keeping afloat and reaching land. The master nobly answered, "No, we will all live or die in company!" The conduct both of the captain and master of this vessel exhibited that striking heroism to which bravery in the field of battle is but secondary.

The third and fourth day passed over the heads of these unfortunate men without sustenance. They picked up the weed borne on the surface of the foaming waves around them, and eagerly devoured it, drinking the sea-water. Their strength was rapidly leaving them, and death, in its most fearful form, was before them. The man called Headley, and another, died on the fifth day. All wished it would please God to take them out of their misery. Since they had left the ship, the sun had been but once visible. All the nights but one had

been starless, so that the darkness augmented their sufferings. They were all, except the master, Richard Clarke, praying for death. On the sixth day after the wreck, Clarke, calm and collected, still endeavored to comfort them with the hope of soon making the land. They expressed their doubts that they should ever again cast their eyes on the welcome shore. He told them to throw him overboard if they did not make land on the seventh day; and this rallied their spirits, for they seem to have reposed great trust in his skill and knowledge.

The seventh day broke, and one hour before noon they got a sight of the shore. In the afternoon they landed, but were so weak that it was with difficulty they could assist each other out of the boat. They fell on their knees and thanked God for their deliverance. The stronger then helped the more feeble to a brook, where they refreshed themselves with the water, and quenched their intolerable thirst. They gathered and ate of some berries they found growing wild near the spot.

The next day, Clarke divided them into parties of three, to search for food; being to rendezvous together at noon, with what they could collect, for the common stock. They were fortunate enough to find a great quantity of peas growing wild. For three days they lived on these peas and on berries, and at night sheltered themselves in a hut, rudely constructed of the boughs of trees.

They had preserved their boat, and, being a little recovered from their former feeble state, they rowed along the shore, with the design of making the Great Bay of Newfoundland, which was then annually frequented by Spaniards engaged in the whale fishery. When hungry, they landed to eat berries and peas



They had not proceeded far in this way, when a Spanish ship fell in with them, the captain of which proved a kind friend. He took them to St. Jean de Luz, in the Bay of Biscay; and when the Spaniards came on board, told them they were poor fishermen cast away at Newfoundland. He set them on shore in the night, only ten miles from the French frontiers, which they reached before day broke, and, thus having escaped, travelled to England through France, where they safely arrived about the end of the year 1583.

Their history having thus terminated, it will be proper to go back to the *Golden Hinde* and *Squirrel*. The crews of these ships, dispirited at the loss of the best vessel of the squadron, still continued to beat about in those thick fogs which are so common on the shores of Newfoundland. The crew of the *Squirrel*, already on short allowance, besought Sir Humphrey Gilbert to return to England. The crew of the *Golden Hinde* joined in the same request. Sir Humphrey Gilbert, whose enthusiasm did not seem abated by his disasters, engaged them to accompany him again in the following spring. On the 31st of August they altered their course, during a fresh breeze and high sea, and directed it for their native land.

Sir Humphrey had hurt his foot, and, on the 2d of September, went on board the *Golden Hinde* to get it dressed by the surgeon of that ship. He repeated the visit to partake of an entertainment with the captain, master, and crew. He spoke of his disappointment on losing his papers and some ore which the Saxon refiner had procured in Newfoundland, which had been lost in the *Delight*. The *Squirrel* was overloaded, having heavy artillery on board, and things on deck so much above her tonnage, that her situation at that season of the year was considered dangerous by those on board.

the *Hinde*. They advised Sir Humphrey to shift into the larger vessel. He generously replied in the negative. "I will not," said he, "now desert my little vessel and crew, after we have encountered so many perils and storms together."

The *Golden Hinde* supplied the boat of the *Squirrel* with what provisions were necessary, and Sir Humphrey returned in it to that ship. They were then about three hundred leagues on their voyage to England. A vessel of ten tons, laden like the *Squirrel*, was too small to resist the waves in the Atlantic. On the 9th of September she foundered, and Sir Humphrey perished, when they were in the latitude of England. The *Squirrel* was near foundering in the afternoon of the same day she went down; at which time, and when they were in imminent danger, Sir Humphrey was seen from the *Hinde*, sitting in the stern of the ship with a book in his hand, and was heard to call out, "Courage, my lads! we are as near heaven at sea as on land!" It was about twelve o'clock at night when the ship went down.

The three voyages by Davis, in 1585-88, enlarged the limits of research. By the discovery of the strait which still bears his name, he opened the way to Baffin's Bay and the Polar Sea: he also surveyed a considerable extent of the Greenland coast. Various attempts to find a passage were also made during this century by Spaniards, French, Danes, and Dutch, those of the last-mentioned nation being the most memorable. To avoid the risk of a voyage to India across the ocean, over which Spain claimed the supremacy, they sought for a shorter passage by the north-east.

The three voyages by William Barentz, 1594-96, afford striking examples of dangers encountered, and manful perseverance in struggling against them. He

made his way to the sea between Spitzbergen and Nova Zembla, until, to quote the narrative of the third voyage, "we came to so great a heape of ice that we could not sayle through it." In August of the last-mentioned year, the vessel was embayed by an unusual drifting of the ice, which, crushing around them with a violence that "made all the haire of our heads to rise upright with feare," forced them "in great cold, povertie, miserie, and grieve, to stay all that winter." They exerted themselves to the utmost to avoid so terrible an alternative; but on the 11th of September, as is related, "we saw that we could not get out of the ice, but rather became faster, and could not loose our ship, as at other times we had done, as also that it began to be winter, we tooke counsell together what we were best to doe, according to the time, that we might winter there, and attend such adventure as God would send us; and after we had debated upon the matter (to keepe and defend ourselves both from the colde and wilde beastes), we determined to build a house upon the land, to keepe us therein as well as wee could, and so to commit ourselves unto the tuition of God." While casting about for material for the edifice, to their great joy they discovered a quantity of drift timber, which they regarded as a special interposition of Providence in their behalf, and "were much comforted, being in good hope that God would show us some further favour; for that wood served us not onely to build our house, but also to burne, and serve us all the winter long; otherwise, without all doubt, we had died there miserably with extreme cold."

Parties were thereupon set to work to build the house, and drag their stores from the ship on hand-sleds, in which labors they were grievously interrupted by bears and severity of the weather. If any one held a nail

between his lips, the skin came off with as much pain, on taking it out again, as though the iron had been red hot ; yet, notwithstanding the cold, there was open sea for many weeks an "arrow-shot" beyond their ship. The dwelling, slow in progress, was finished by the end of October, and thatched with sea-wrack, the more effectually to close the chinks in the roof and walls, and "we set up our dyall, and made the clocke strike." On the 4th of November "wee saw the sunne no more, for it was no longer above the horison ; then our chirurghion made a bath (to bathe us in) of a wine-pipe, wherein wee entred one after the other, and it did us much good, and was a great meanes of our health." All the spare clothing was distributed, regulations established with regard to diet, and duties apportioned ; the master and pilot being exempted from cleaving wood, and other rude labors. Traps were set to catch foxes for food, and cheerfulness was as much as possible promoted ; but at times they were snowed up, and could not open their door for many days, and had no light but that of their fire ; they were tormented with smoke, while ice two inches thick formed in their sleeping-berths. The clock stopped with the cold, after which they could only reckon time by "the twelve-hour glass."

The misery they endured may be judged of by the tone of some of the entries in their journal ; such suffering was but too frequent : "It was foule weather againe, with an easterly wind and extreame cold, almost not to bee indured ; whereupon wee lookt pittifully one upon the other, being in great feare that if the extremitie of the cold grew to bee more and more, wee should all dye there with cold ; for that what fire soever wee made it would not warme us ; yea, and our sacke, which is so hot, was frozen very hard, so that when we were every man to have his part, we were forced to melt it



in the fire, which we shared every second day about halfe a pint for a man, wherewith we were forced to sustayne ourselves ; and at other times we dranke water, which agreed not well with the cold, and we needed not to coole it with snow or ice ; but we were forced to melt it out of the snow."

Linen froze in an instant taken out of warm water. The closeness of the hut nearly suffocated them from the smoke, and if the fire became low the walls were soon covered with thick ice, — even the beds were lined with it. Except when employed in cooking, they lay constantly in their beds. Oftentimes they heard tremendous noises like thunder break the fearful stillness of the unbounded frozen waste around them ; it seemed like the bursting asunder of mountains, and the dashing them into atoms. This sound was probably caused by the fracture of the ice at sea. They knew not day from night, the moon shining brightly. On the 7th of December they went on board their ship for some coals, and made up a good fire in the evening, which gave them much comfort. They had a narrow escape, however, from the vapor ; for, closing every aperture of the hut to keep in the heat as much as possible, a seaman, who was indisposed, first complained of not being able to bear it, and then they were all attacked with vertigo, and could scarcely stand, until the door was opened, when the first who reached it fell down faint on the snow. Gerard de Veer recovered the fallen man by sprinkling his face with vinegar, and the fresh air rushing in restored them again. A glass of wine was then served out to each man to recover him completely.

On the 19th of December they comforted themselves that half the time of the sun's absence was over. The seamen's shoes were now frozen so hard that they could not be worn, and they made themselves slippers of

skins, and put on several pairs of socks together, to keep their feet in heat. The ice was an inch thick on the sides of their hut, and when they went out in clear weather their clothes became white with frost and ice. They increased the size of their fire, but from their recent warning kept an opening for the smoke. They had used all the wood laid up in their hut by the middle of January, and they were obliged to shovel away the snow on the outside to get at a fresh stock. This they found a task of great difficulty, from the excessive rigor of the climate. A party also proceeded to the ship, but found her frozen up as before, and the ice accumulated within. They caught a fox in the cabin, which they took to their hut and ate.

They had been economical of their wine, but they kept Twelfth night with savings from their scanty allowance, thus making as merry as their dismal situation would permit. They fancied themselves at home in Holland. They made pancakes with meal and oil, and, soaking biscuit in their wine, drank to the three kings of Cologne, and comforted themselves as if they had been at a "great feast." They drew lots who should be king of Nova Zembla, and it fell to the gunner to be the monarch of that domain of cold and desolation. In short, they made themselves as happy as if they had been in their own houses among the dykes of Holland. Thus does enjoyment, even in the most adverse times, come to the very portal of misery at the mind's bidding.

They had stormy weather for several succeeding days, till about the 15th of January, during which they confined themselves to their hut. They heard the foxes running over their heads, but could not catch them, which they regretted, as their provisions were beginning to run short. The intense cold absorbed every other sensation. They applied hot stones to their feet and

bodies to keep them warm : comforting themselves, that now the sun was about returning to them, with a little patience he would warm and gladden them again with his beams. Even sitting before their fire, their backs would become white with frost, while their stockings would be burned before they could feel the heat to their feet.

They visited their ship a second time, and found traces of bears ; and, going below, discovered the ice a foot higher in the hold than it had been originally. They had little hope now that their vessel would ever float again.

Gerard de Veer and Jacob Heemskirk, going with a third person to the sea-side towards the south, on the 24th of January, the day being clear, saw the edge of the sun above the horizon. They imparted the welcome news to their friends, but Barentz was incredulous, as the return was thought too early by fourteen days. For two days afterwards they had no opportunity of verifying the fact, owing to the weather being thick and cloudy.

They lost one of their number on the 26th ; he had long been ill ; they dug a grave seven feet in the snow ; and then, as is mournfully recorded, "after that we had read certaine chapters and sung some psalmes, we all went out and buried the man." As the days lengthened, the light enabled them to take exercise, though the weather still remained as severe as before. A slight relaxation of cold in February was followed in the next month by cold of increased rigor. They were totally blocked up in their hut by snow on the 24th of March.

On the 6th of April they attempted to shoot a bear which approached close to their dwelling ; but their guns missed fire, and the animal came down the steps they had cut in the snow directly against their door. The

captain, frightened and confused, could not fix the bar of wood which usually constituted the fastening, but they contrived to hold the door home so fast that the animal could not enter, and it then walked away. The creature soon returned again, roaring around the hut, to the great terror of the inmates ; at last it got on the roof, which they feared it would have broken, being quite furious. A sail hoisted on the outside of the hut the bear tore to pieces in his anger. No other injury ensued.

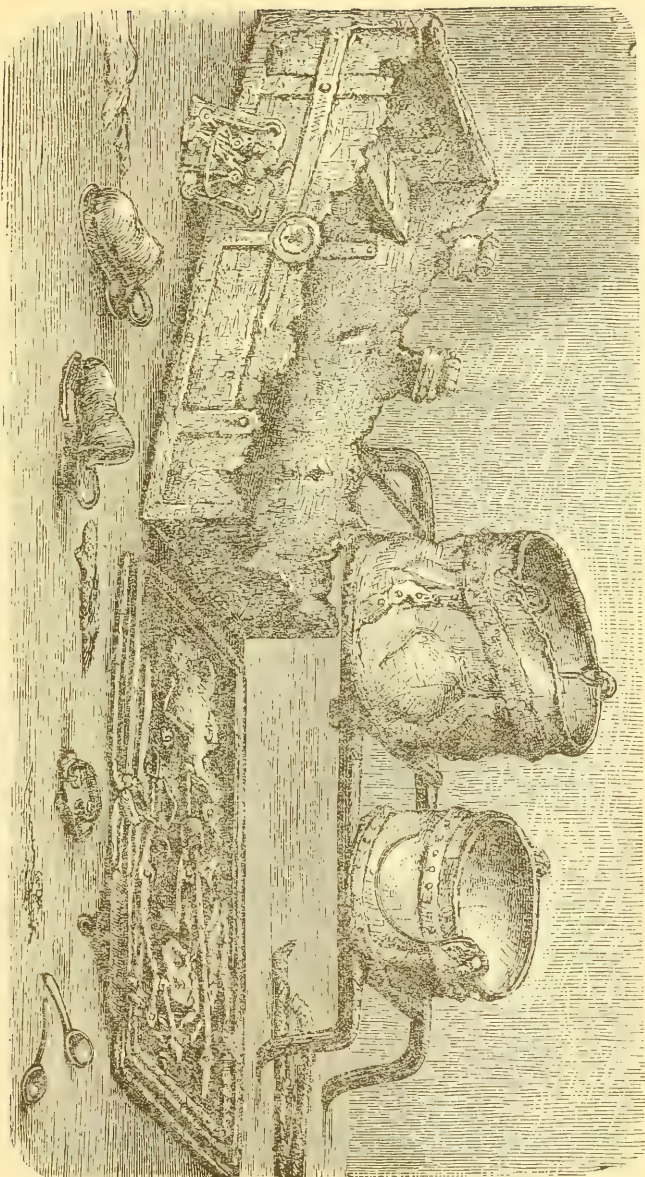
The sea began to open, as early as the middle of March, to within seventy-five paces of the ship ; though a new frost came on, and increased the distance to five hundred on the 4th of May. They did not wait to see whether their vessel might again be serviceable. They preferred the chance of going in their boats, and of venturing in them to cross a sea three or four hundred leagues rather than to trust an uncertain event.

They now set about preparations for departure. They repaired their two boats, and had good hope "to get out of that wilde, desart, irkesome, fearfull, and cold cuntry." On the 13th of June the survivors, twelve in number, left the desolate shore, after a stay of ten months. Their privations and exposures in small boats, in an ice-encumbered sea, may be imagined. Three of them perished, worn out with disease. The indefatigable Barentz himself at last succumbed. They had passed Icy Cape two days before. This cape is a headland in Nova Zembla in the Arctic Ocean. It is in lat. 75° N. ; lon. 70° E. ; a bleak and lofty promontory.

As they were approaching this cape, Barentz asked if they had yet reached it ; and, on being told it was in sight, requested he might be lifted up to see it once more, the ruling passion of this adventurous seaman being strong in death. About nine o'clock on the



RELIQS OF THE BARENTZ EXPEDITION, RECOVERED BY CAPT. CARLSEN.





morning of the 20th, it was communicated to those who were in the launch that Claes Andriz was near his end, he being in the other boat. Barentz then told his companions he should not long survive Andriz. He was at the moment examining a chart of all the countries and objects they had seen on their voyage, made by Gerard de Veer. No one suspected that what he said was so immediately to be fulfilled. Putting the chart on one side, he asked De Veer to give him something to drink. Barentz swallowed what was given him, and found himself worse immediately; his eyes moved rapidly about for a moment, and he died so suddenly, they had not time to call the captain, who was in the other boat. Andriz expired at nearly the same moment. The death of Barentz was a severe blow to his companions. Upon his experience and knowledge in navigation they relied for their safety in the future conduct of their navigation during a perilous voyage in boats, they hardly knew whither.

They struggled on, however, manfully overcoming the perils that beset them; and in September reached the coast of Lapland, where "wee saw some trees on the river side, which comforted us and made us glad, as if wee had then come into a new world; for, in all the time that wee had been out, wee had not seene any trees." On the eleventh of the same month, after a voyage of eleven hundred and forty-three miles, these brave-hearted men set up their boats in the "Merchants' house," at Coola, as "a sign and token of their deliverance;" and, embarking on board a Dutch ship, in the course of a few weeks once more set foot in their native country.

The survivors appeared before the people of Amsterdam in the dress they wore at Nova Zembla. Curiosity was awakened everywhere respecting them. They were

taken to the ministers of foreign states, at the Hague, to relate their perils and give an account of the frigid land, which none of the southern natives had visited before. Their treatment on their arrival home must, in those days, have been an ample compensation to the survivors for their past sufferings.

One of the boldest of early navigators, and one of the most successful, was Henry Hudson, the discoverer of the immense bay which will carry his name and unfortunate end to the latest times. This intrepid mariner first distinguished himself in 1607, being sent out by the Muscovy Company on a voyage, with instructions to penetrate directly to the pole. He succeeded in pushing north as far as latitude  $81\frac{1}{2}^{\circ}$ , and returned home, after coasting Spitzbergen, with the conviction, which modern experience has not impugned, that a passage to the pole was completely barred out by the ice in that direction. In 1608, he again set sail, to decide the practicability of a north-east passage, then a favorite subject of debate in the maritime countries of Europe. He saw North Cape on the 3d of June, and reached latitude  $75^{\circ}$ , when he got among the ice. He now pushed on in the parallels of  $74^{\circ}$  and  $75^{\circ}$  to the eastward, and made the coast of Nova Zembla, in latitude  $72^{\circ} 25'$ ; but, finding a further course impracticable, he returned, with the conviction that there was no hope of a north-east passage; and here again time has proved his judgment to have been correct.

The Dutch sent him, in 1609, to try this passage again; but he gave it up, after passing Wardhuys, and, returning past North Cape, crossed to the coast of America, where he searched for a passage, and discovered the bay on which New York now stands, and the magnificent river named after him, the Hudson. On the 17th of April, 1610, Hudson set sail in a vessel



called the *Discovery*, of fifty-five tons' burthen, fitted out in the Thames, at the expense of Sir John Wolstenholme, Sir Dudley Digges, and other distinguished persons, and victualled for six months. The ship touched at the Orkney and Faro Islands, and, on the 11th of May, the crew descried the south-eastern part of Iceland; but hearing breakers, and a fog coming on, they cast anchor. They now found themselves embayed. Weighing anchor, they next proceeded northward along the western coast, taking a quantity of fine fish during a day's calm, which overtook them. A south-east wind then arose, and they reached the Vestmanna Isles, where the Danes had a fort, and passed the grand and awful mountain called Snow Fell, which towers to a vast height over those inhospitable and desert shores. They saw Mount Hecla in the blaze of an eruption, surrounded by eternal snows; and fell in soon afterwards with a mass of ice, stretching far to the westward from the northern part of the island. Here Hudson entered a port in the north-west side, where they killed a quantity of wild fowl. They sailed, but were again obliged to put back, without being able to make the harbor, but fortunately fell in with another haven, where they found some hot springs, and bathed. The water of this spring was so hot it would boil a fowl.

On the first of June they set sail for Greenland, and soon fancied they saw land to the westward, but it proved to be fog. It was not until the fourth that Greenland appeared in sight. The coast was lined with a vast barrier of ice. "This day," says Hudson, "we saw Greenland perfectly, over the ice; and this night the sun went down due north, and rose north-north-east; so, plying the fifth day, we were in 65°."

Their course lay mostly west and north-west, till Cape Desolation appeared on the western side. Here

they saw a great number of whales. They now made their course north-west, the wind preventing them from sailing more to the north, and here they first fell in with the icebergs. At the end of June they saw an island, perhaps Resolution Island. Hudson would still have sailed more to the north, but the wind would not permit; so he went south of the island, and found the current setting to the west. They entered the stream, and were carried north-west, until they fell in with ice, which was attached to the shore. Hudson then kept to the south and west again, through floating ice, upon which they found numerous seals. They now had a clear sea, and sailed until they again encountered icebergs, and floating pieces of ice, keeping north-west. They saw an iceberg overturn, and took warning from it not to approach too near them in future; yet they were soon obliged to take shelter between two masses, owing to a storm, and there lie snug.

On the cessation of the storm, they stood on, as they found it clear enough of ice around them to venture. Their course lay with the ice, and whenever it permitted them to make a passage they moved with it, though still enclosed. Hudson, trying to get clear of it by steering south, found the more he tried the worse they were off, until he could go no further. Here the navigator himself was in despair, thinking they should never get out of it. He, therefore, brought out his chart, and showed the crew that they had sailed a hundred leagues further than any of their countrymen had gone before, and left it to them to say whether they should proceed further or not. Some seem to have replied one way and some another, but there was evidently much growling and discontent among them. After much labor they got clear, and shaped their course north and north-west. It is most probable that the commander, seeing the dis-

content of a part of his crew, ended the conference and took his own course. He still seems to have relied upon his own resources and courage, and to have continued to pursue the object of his voyage, sometimes environed by the ice, yet often in a clear sea. He found a harbor among some islands, which he named the "Isles of God's Mercy." Here some of the crew went on shore. They saw a bay to the north, with a large iceberg aground, which afterwards floated away. They took in drift-wood, which they found cast up on the shore.

After a good deal of sailing to the south and north-west, and west, and then south, as the intricate navigation required, they stood to the westward in a clear, open sea, and saw three headlands, which Hudson named Prince Henry's Cape, King James's, and Queen Anne's. They now proceeded north to double the headlands, until they saw the north shore, on which Hudson put about until he made the south land again, but very much to the west of what he expected, owing to a strong current, which arose, no doubt, from the set-in of the tide to the great bay which bears his name. They now saw a hill on the south shore, which they named Mount Charles; and soon after a cape, which was called Cape Salisbury. Still proceeding along the south shore, they came to an island, distant from the mainland about two leagues, one point of which they named Deepe's Cape, the other Wolstenholme's. At this island the boat was sent on shore to make discoveries. Those in it were overtaken by a storm, but they succeeded in landing and climbing up the rocks, when they came to some level ground, in which they found a herd of deer, but could not get within musket-shot of them. On this island they found plenty of fowl, and some excellent herbage, also sorrel and scurvy grass. They saw some hollow cells of stone, in which they found a quantity of

fowls hung up by the necks. The ship now fired a gun to call off the people who had landed, for a fog had come on. Upon returning on board, Hudson would not stay to refresh on the island, as some of the crew recommended, but proceeded, his mind, no doubt, contemplating the discovery of the great sea on which he was about to enter.

At this time it was that the discontent, which had no doubt been increasing on board, was visited by an exercise of the commander's authority. Some discussion, it appears, took place about entering a bay, and going out of it. On this occasion, Hudson is said to have revived some old grudge, and to have displaced one Juet from the situation of mate, and degraded the boatswain for words which had been spoken some time before, making Billet, or Bylot, his mate, and William Wilson his boatswain. The crew thought it harsh in Hudson to revive this old affair. They were obedient, however, and sailed again in a northerly direction until they saw land, and then to the south, and so on from land to land, on the opposite side the straits. On Michaelmas day they entered a bay, which Hudson named Michaelmas Bay. They afterwards stood to the north until they came into shoal water, with thick, foggy weather. They were now obliged to anchor, and so remained for eight days, when, the wind dropping, Hudson insisted on heaving the anchor up, against the opinions of those on board. While the crew were lifting the anchor, a sea struck the ship, and knocked all hands from the capstan, several of whom were much hurt. They lost an anchor, and would have lost all their cable, had not the carpenter fortunately been by with an axe and cut it.

They now stood to the south and south-west, through a sea clear of obstructions, but changing in soundings



and in color. After sailing further, they came into shallow water, — so shallow that their boat could not reach the shore, which they saw at some distance, and to which they were obliged to wade. There they discovered the marks of a man's foot in the snow, and plenty of wood, of which they shipped a good stock, and returned on board. Soon after, they saw a ledge of rocks, upon which they ran, and remained fast for twelve hours, but at length got off, not wholly uninjured.

They now began to look out for a place where they might winter. The nights were become long and cold, while the snow covered all the country. The party sent to explore were at first unsuccessful, but on the 1st of November they found a place where they might haul their vessel aground. By the tenth day they were frozen in, and began to look at their stock of provisions, when they found they must be fed upon such an allowance as would hardly keep in life, or last them to the headlands, where fowls might be captured for their supply. Hudson regulated the present allowances in the best way he could, and offered a reward to those who added to the general stock, by killing or capturing anything serviceable for food. In this they must have had success, or their subsistence from April, the 17th, even as far as Christmas, is a miracle, upon six months' victualling.

It appears that, on taking up their winter quarters, it had been proposed to Hudson to erect a house on shore, which he would not hear of being done while it was practicable. The severe northern winter had set in, when he altered his mind, and desired the carpenter to put it in hand. The latter said he neither could nor would set about it. Hudson pursued to strike him, calling him names, and threatened to hang him. The

carpenter made his rejoinder by telling Hudson he knew his duty, — that he was no house-carpenter. Such, at least, is the story of Pricket, one of those who came home in the vessel ; but the subsequent noble conduct of the carpenter, in refusing to desert Hudson, shows that the latter must have stood high in his esteem and affection, notwithstanding this altercation. The house was ultimately built, but proved to be of no use.

The winter was intensely cold, and the ship's company ill provided with necessaries. Their sufferings were great, and most of them were lamed, or some way injured. They eked out their provisions by wild fowl of several kinds, having taken more than a hundred dozen of "white partridges," as they styled them. When these birds left in the spring, they had swans, geese, ducks, and teal. When these had gone away, they devoured moss, frogs, and buds. One of the crew having brought the buds of a tree full of some substance like turpentine, a decoction of it was made by the surgeon for drink, and much ease was experienced by applying it hot to their frozen limbs. While the spring lasted, about the time the ice was breaking up, the savages visited them, and they trafficked with them, and gave the crew furs in exchange for knives, looking-glasses, and buttons.

Hudson now prepared to return home. He delivered out the last pound of bread to each man, just as they were preparing for a long and perilous voyage, without provisions for the entire crew for more than ten days ; and also gave what Pricket calls a "bill of returne," that if ever they got home they might show it, — and he wept as he gave it to them. Fourscore small fish, taken just afterwards, were a seasonable relief to them, though but little towards satisfying their hunger beyond the moment.

They now set sail, and came to anchor in the sea of that immense bay, in which the discoverer, having undergone so much suffering and danger, was to find his grave. They were without bread; five cheeses only were left, and these were equally divided by Hudson among his men.

But a report calumnious of Hudson, for secreting bread, was now spread among the crew. The discontent which had been for some time excited by one Green, a worthless fellow, whom Hudson had befriended, broke out into open mutiny on the 21st of June. The ship's company, both sick and well, were in berths, dispersed generally two and two about the ship. King, one of the crew who was supposed to be friendly to Hudson, was up, and in the morning they secured him in the hold by fastening down the hatches. Green then went and held the carpenter in conversation to amuse him, while two of the crew, keeping just before Hudson, and one, named Wilson, behind him, bound his hands. He asked what they were about, and they told him he should know when he was in the shallop. Another mutineer, Juet, went down to King in the hold, who kept him at bay, being armed with his sword. He came upon deck to Hudson, whom he found with his hands tied. Hudson was heard to call to the carpenter, and tell him he was bound. Two of the devoted party, who were sick, told the mutineers their knavery would be punished. They paid no attention; the shallop was hauled up to the side of the vessel, and the sick and lame were made to get into it.

The carpenter, whom they had agreed to retain in the vessel, asked them if they would not be hanged when they reached England, and boldly refused to remain with them, preferring to share the fate of Hudson and

the sick men. He demanded his chest, which was given him, and put into the boat. The names of the persons put out of the ship were Henry Hudson, John Hudson, Arnold Lodlo, Sydrack Faner, Phillip Staffe, Thomas Wodehouse, Adam Moore, Henry King, and Michael Bate. The carpenter contrived to get a musket, powder and shot, some pikes, an iron pot, some meal, and a few other necessaries. The crew then cast the boat off the ship, loosened the ~~w~~<sup>u</sup>p sails, and stood out to sea, steering to the eastward. The boat in which were Hudson and his companions was seen no more, nor was it ever heard of again.

The mutineers now stood to the north-east, contrary to Juet's opinion, who was for steering north-west. The next day they had a storm, and ran into ice, where they remained fourteen days, locked up. In that storm the intrepid commander and his forlorn party in the boat may have perished. It is probable they either died of hunger at sea, or got out of their course, and perished in the storm. They might, indeed, have been starved on the shore, or killed by the aborigines. The end of Hudson is a melancholy and affecting incident. His talents, courage, and perseverance, rank him among the first navigators of any age. In the comparative infancy of discovery in the northern regions, he deserves to take the lead. Left in the great bay which he brought to light, the victim of treachery, he has not been forgotten by posterity, like many of his contemporaries. The mystery of his fate causes his name to be pronounced, even now, with pity, while his skill and courage make the man an object of our admiration, even in these times, when a northern navigation and wintering are not considered such extraordinary perils by the navigator.

The ship continued her navigation homeward. Steer



ing north-east, the mutineers shaped their course for the capes or headlands where, as they supposed, the wild fowl frequented. Landing on one of these, in search of fowl, they fell in with a party of natives, who behaved so peaceably that the Englishmen soon began to traffic with them. For this purpose, they ran the ship in as near to the land as was practicable, and sent a boat ashore laden with goods. Leaving Pricket in charge of the boat, the rest of her crew, one of whom was Green, landed and mixed among the natives, showing them looking-glasses and other articles. Suddenly, one of the savages came into the boat and attacked Pricket with a knife. He defended himself, and a deadly struggle ensued, in which the savage was at last killed. In the mean while, those of the crew on shore were attacked. Thomas and Wilson were stabbed in the bowels; Perse and Green, both dreadfully wounded, fell together into the boat; Moter jumped from the rocks into the sea, and swam to the boat, where, holding the stern, he begged to be taken in; Perse beat off the savages with a hatchet, and Green with a fragment of a pike. The savages then took their bows and arrows. Green was killed on the spot; Perse received many other wounds, as did all the others, but he pushed off the boat, having taken in Moter. Perse and Moter then rowed away, while Pricket received a bad wound in his back from an arrow, as the boat came round. The savages ran to their canoes, but did not pursue the crew. They regained the ship, but three died of their wounds. There were now scarcely hands enough left to work the ship through the entrance of the strait; and the same men who worked the ship were obliged to go in the boat and kill fowls for subsistence on the passage home. With great labor, they killed three hundred, which they salted. They then sailed to the

Cape of God's Mercies, and thence bent their course for Cape Desolation, in Greenland. But, the wind coming on adverse, they shaped their course for Ireland. They suffered, during the passage, the most dreadful extremities of famine, allowing only half a fowl a day to each man, and considering it a luxury to have it fried with candles, of which a weekly distribution was made for that purpose. Ivet, now the sole survivor of the ringleaders in the atrocious conspiracy, sank under these privations. The last fowl was in the steep-tub, and the men were become nearly desperate, when suddenly it pleased God to give them sight of land, which proved to be the north of Ireland. They complain that, on going ashore at Berehaven, they did not receive the sympathy and kindness which they so much needed; nor was it until they had mortgaged their vessel that they obtained the means of proceeding to Plymouth.

Strange to relate, no attempt was made to bring the mutineers to trial; some of them, indeed, were afterwards employed in making further explorations.

Great hopes were entertained that the much-desired passage would be found leading out of Hudson's Bay; and a good deal of controversy on the question arose, from time to time, among contending voyagers and their abettors. Between this period and 1616, those arms of the sea known as Sir Thomas Rowe's Welcome and Fox Channel were discovered; and in the year just mentioned Baffin sailed into and explored the vast bay, eight hundred miles long, and three hundred wide, named after him. For a long time his report of its great length was disbelieved, but later researches have confirmed the accuracy of his statements; even the latitudes laid down by him are almost identical with those recently determined, with all the advantage of superior instruments. Among other openings, Baffin

saw Lancaster Sound, and, had he explored it, Parry's discoveries would have been anticipated by two hundred years, as they had been to some extent by the long-forgotten Northmen. The opinion, however, at that time, and, indeed, until within the past fifty years, was, that no practicable opening to the Polar Sea existed, except that at Behring's Strait. From this period to about the middle of last century, the outlets to the west of Hudson's Bay were the points to which effort was directed ; and truly may it be said, that these earlier navigators left very little for those who came later. In small vessels, varying from ten to fifty tons' burthen, they accomplished more than has since been effected by lavishly-equipped expeditions.

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In recording the adventures, the imminent dangers, the narrow escapes and the disasters that have attended the hardy navigators and the enterprising explorers in the frozen regions of the North, we find many incidents that require the exercise of an amount of belief that is closely allied to credulity, and some indeed that even indubitable evidence can scarcely induce us to credit. And we have exercised, and shall exercise, the greatest care, both in the matter and manner of our annals, to adhere to authenticated facts, stating them, without exaggeration or other disguise, just as they occurred. This train of thought and remark has been suggested by some wonderful discoveries recently made by a Norwegian navigator, Captain Carlsen. The story seems actually improbable, but is unquestionably true, as it is perfectly authenticated by evidence that cannot be gainsaid. We all know that the ice-girt shores of the Arctic Waters hold many secrets that relate to the brave, daring men who have hazarded life and lost it in the effort to seek out the natural secrets of that land of mystery. We know, too, that they hold the mortal re-

mains of many a hardy mariner and of spirited leaders in the perilous search for the North Pole.

Among the many daring men who have braved the icy terrors of Polar navigation, none have been more daring than William Barentz, whose expeditions we chronicle earlier in this chapter. After twice returning in safety to his native Holland, a third time this intrepid explorer went forth into those frozen wilds, and this proved his last earthly enterprise; the expedition was disastrous in many respects, but chiefly in the death of its brave leader and of many of his equally brave followers.

On the ice-bound coast of Spitzbergen, Barentz and his men found it necessary to land and spend a dreary winter, and here they built huts for shelter and made them as comfortable as possible for occupancy by furnishing them from their vessel. When the winter was over, they found their vessel unfit for the voyage home, and being compelled to embark in their boats, had to leave their furniture, utensils, etc., in the huts.

Three centuries nearly have passed away since the desertion of the quaint settlement. The years have come and gone over those silent witnesses to the presence of the ancient mariner and his sturdy crew. In all that time, as we may believe, no living thing has invaded the sacred solitude of this spot, haunted with the memories of that coming, long ago, of Barentz, and his men. Possibly, from a distance, the walrus and the seal may have gazed upon it, and from his rapid flight in the ether some Arctic bird of passage may have turned a curious eye upon the scene. But no dust has settled there; no moth has stolen in to bring decay. Even the elements seem to have abated their severity and to have protected with a kindly hand the legacy left to their undivided keeping.

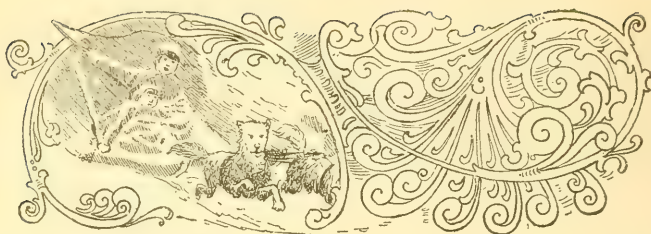
The sequel almost partakes of the character of one of those tales wherewith the princess in the "Arabian Nights" deferred her threatened fate by whiling away the tedious



evenings of her cruel caliph. One day, in the year 1870, Captain Carlsen bore shoreward in his ship to this icy coast of Spitzbergen. He landed at the spot where Barentz had landed before him, and to his perplexed eyes appeared the vision of the old encampment.

The huts were still there, just as Barentz had left them nearly three hundred years before. In the rude hearth lay the relics of the long extinguished fire. Upon the shelf were books from the old Dutchman's library—a work on navigation, the latest edition published before he had sailed, and a history of China translated into Dutch. Jugs and dishes, wherein had been prepared the drink and food of the adventurers, were scattered here and there, and even a pair of shoes were found which had belonged to a little cabin boy, who, as says the records, had died upon the voyage. There were also quaint engravings, and a curious mathematical instrument intended to assist in obtaining longitude. All these articles were carefully collected, and were carried to Europe on Carlsen's return. Truly, there is a strong touch of pathos in this revelation of one of the secrets of the long past.





## CHAPTER 11

RUSSIAN EXPLORATIONS.—DESHNEFF.—EXPEDITIONS OF 1711.—FRUITLESS EFFORTS.—LAPTEFF.—BEHRING.—HIS SHIPWRECK AND DEATH.—FATE OF THE SURVIVORS.—SCHALAROFF.—SLEDGE EXPEDITION.—ADMIRAL VON WRANGELL'S EXPEDITIONS.

HITHERTO we have been chiefly occupied with the explorations on and around Northern America, and we now come to the history of those along the continent of Asia, the northern limit of which extends over a space of  $145^{\circ}$  of longitude. The discovery and survey of this vast region is due entirely to the Russians ; for, although other nations attempted the passage, they penetrated no further than the Karskoie Sea and Cape North on the east. The first knowledge of the countries which here bound the polar basin was, as in the case of the other continent, derived from private adventurers, who undertook journeys into those desolate regions in hopes of a profitable trade in furs, skins, and ivory. Russian traders, sailing from the White Sea and mouth of the Petchora, voyaged as far as Obi and the Iennissei ; their vessels, similar to those of early British navigators, were little better than shallops, and it is impossible not to be struck with the labors of those whose chief resource was indomitable perseverance.

The first endeavors under government authority were made about the year 1600 ; and trading-stations were established at the mouths of most of the larger

ivers, with the double view of exploration and of subjecting the natives to Russian authority. The Lena, Iana, Indigirka, Alaseia, and Kolyma, were discovered before 1640, by parties sent under Cossack leaders to collect tribute, who at the same time fell in with the Tchuktches, and heard their reports of islands lying off the coast. The earliest attempt to sail to eastward of the Kolyma was made in 1646, and repeated in the two following years, with several small vessels, all of which were wrecked, except one commanded by Deshneff, a government functionary, whose name stands high among the early explorers. His grand object was to get round to the mouth of the Anadyr, on the eastern coast, to trade for sable-skins ; and the summer of 1648 proving favorable to navigation among the ice, he sailed along the shore, and through the strait explored by Behring nearly a century later, and founded a settlement at the place to which he was bound — the Anadyr river. This is the only occasion on which such a voyage has been made ; and to Deshneff and his companions belongs the honor of having been the first and sole navigators from the Arctic Sea to the Pacific, and of having proved, at a period much earlier than is commonly supposed, that the American and Asiatic continents are not united.

Other expeditions followed ; the Bear Islands were seen ; and, to obtain accurate particulars concerning them, the government of Siberia sent out two parties, in 1711, who crossed the ice to the Likahoff Islands, and saw others yet further to the north. On their return to the mainland, the leaders were murdered by the crews, who feared the hardships of further explorations. Thus the work went on with varying fortune, the positions mostly ill-defined, as must be the case in the absence of accurate instruments, until 1734, the reign of the

**Empress Anne**, when the Russian admiralty fitted out three expeditions "to obtain a correct knowledge of the northern coast of Siberia from the White Sea to Behring's Strait;" "one, consisting of two vessels, was to sail from Archangel eastward to the mouth of the Obi; another, from the Obi to the Iennissei. The third was to sail from the Lena, and consisted of two vessels, one of which was to sail westward to the Iennissei, and the other eastward, past the Kolyma, to Behring's Strait."

Insurmountable impediments to navigation, recall of commanders, wintering in the rivers, overland journeys to St. Petersburg, renewed attempts, scurvy, and shipwreck, comprise the history of these expeditions. One of the mates, in observations on the compass, makes the remark, "The variation of the needle was so great, and it was so unsteady, that I am inclined to believe the magnet ceases to act in these high latitudes." This fact is worthy of record, as bearing on phenomena which have subsequently been regarded with much attention. But, on the main question, the Russian admiralty refused to receive the reports of impossible navigation; and, in 1739, sent out another expedition, under Lieut. Lapteff, who, by dint of perseverance in four successive voyages, did at last pass to the eastward of the Kolyma; but here fields of ice, extending far to the north, barred his further progress.

Next in order come the voyages by Behring, the explorer of the strait which bears his name. In the year 1741 this celebrated navigator set sail from the harbor of St. Peter and St. Paul, in Kamtschatka, in two vessels, from which he had named the port. It was the 4th of June when they weighed anchor, and on the 12th they had reached latitude  $46^{\circ}$  without seeing land. They proceeded as high as  $50^{\circ}$  of latitude with little









success. They now determined to steer eastward, towards the American continent. On the 20th the two ships were separated by a storm, followed by hazy weather.

On the 18th of July, Behring, while waiting for the other vessel, discovered the American continent, in latitude  $58^{\circ} 28'$ , and in  $50^{\circ}$  longitude, from Awatska. Three days before, Captain Tschirikov, who commanded the second vessel, had fallen in with the same coast, at  $56^{\circ}$  latitude, and  $50^{\circ}$  longitude, from Awatska. He sent on shore his long-boat and shallop with seventeen men, to observe the coast, but neither the one nor the other ever returned. Upon a consultation, in consequence, held on board, it was resolved to return to Kamtschatka. Behring, in the mean time, endeavored to explore the coast he first saw, and to take in water. He set sail on the 21st of July, determined to run as high as  $60^{\circ}$  north. He found it impossible to advance direct, the coast constantly running out to the south-west. He found himself in a labyrinth of islands which bordered the continent, so that often, when he thought himself clear, he discovered land on the larboard and starboard bow. He was then obliged to drop astern, and find a passage that way, encountering great difficulties from calms and currents.

On the 3d of September, while still among those islands, they discovered some of the inhabitants, by whom they were well received. The natives presented whale's flesh to the Russians, — the only provision they had with them, — and seemed to desire they would regale themselves. They had been on a fishing expedition, as their canoes were drawn up on the shore ; but no females or habitations were seen, their dwellings probably being on the mainland. They were unarmed. After some other communications with the natives, and encountering

contrary winds, the Russians were overtaken by a violent storm, which lasted for seventeen days. They found, though they had not kept up their sails, that they had been driven back to  $48^{\circ} 18'$  of latitude. The scurvy now began to appear among them; hardly a day passed without the death of one of the crew, and hands enough, in health, were scarcely left to manœuvre the vessel.

A return to Kamtschatka was resolved upon. After discovering and naming several capes and islands, they saw two which, by an unfortunate mistake, they took for the two first of the Kourile Isles. By this they erred in their reckoning. They in vain took their course to the west; the shore of Kamtschatka remained invisible, and there was soon no hope, so late in the season, of making a port in that country. The crew, notwithstanding their sufferings from cold and continued rain, attended to their duty. The scurvy had already so far advanced that the steersman was conducted to the helm by two other invalids, who happened still to have the use of their legs, by supporting him under the arms. When he could no longer steer, from suffering, he was succeeded by another no better able to execute the labor than himself. Thus did the miserable crew waste away into death. They were obliged to carry few sails, for they had not hands to reef them, if at any time it should be required; and such as they had were nearly worn out, so that the slightest storm was sufficient to shiver them into threads; in this case they could not be replaced from the stores, for want of sailors able to bend new ones. The rain was soon succeeded by snow. The nights now grew longer and darker, and they had now, in addition to their former precautions, to guard against shipwreck. The fresh water on board was rap-

idly diminishing. The labor of the ship became too hard for the few who were still able to be about.

For some days the ship had remained impassive in the water, lying as the wind and waves drove her. On the 4th of November they again endeavored to sail to the westward, without knowing in what latitude they were, or at what distance from Kamtschatka; but it was the only point on which a single hope of their deliverance remained. The joy of the crew, when they came in sight of land, may be conceived; it was about eight o'clock in the morning. They attempted to approach, but they were still at a great distance, and could only see the tops of mountains covered with snow. As they drew nearer, night came upon them. It was judged best, therefore, to keep out to sea until day appeared, that they might not be exposed to shipwreck in the dark. In the morning they found the cordage on the starboard side of the vessel had given way. They could not, therefore, manage the ship much longer. A consultation was held. It was agreed that the ship was no longer manageable, that the water was much diminished, and the sickness on board increased. The humidity had been succeeded by intense cold, of which the increase was now, from the season, to be expected, and life must soon become insupportable. It was, therefore, decided, at all risks, to make for the land, to save their lives, and, perhaps, their ship.

The small sails were alone set, from the weakness of the mast, after the failure of the cordage. The wind was north; the depth of water thirty-six fathoms, with a bottom of sand; two hours after, they found twelve fathoms. They now contrived to get overboard an anchor, and run it out three quarters of a cable's length. At six the cable parted, and tremendous waves bore the ship upon a rock, where she struck twice, yet, in a

moment after, they had five fathoms of water. A second anchor was thrown out, and the cable again parted. They had no third anchor ready. While they were preparing to let go another, a huge wave lifted the vessel over the reef. In an instant she lay in calm water. The anchor was put out, and she was safely moored in four fathoms and a half, with a sandy bottom, and only about three hundred fathoms from the shore. The next morning they discovered that, by a good providence, they had been led to the only spot where it was possible they could have been carried over the ridge of rocks, and that twenty fathoms' distance right or left of the place high rocks rose out of the sea, against which they must have perished during the darkness of the night.

Winter was now come. The crew, worn down with fatigue, reposed until mid-day, and then the boat was lowered. On the 6th of November, the second in command, Mr. Waxall, landed. They found the country barren, and covered with snow. A clear stream of excellent water, not yet frozen, ran down from the mountains to the shore. No trees, or even shrubs, were visible. Firewood might be obtained from what the sea had drifted on the land, but it must be collected from under the snow. Hut or shelter there was none; but they discovered near the banks of a torrent some deep hollows in the sand, which they prepared to clear out, and cover over with the ship's sails, so as to make a shelter, until they could construct cabins of wood. It was accordingly resolved to take the sick on shore the next day, as soon as places were prepared for them.

On the 8th of November they were landed. Some died on being brought up into the air from below, others in the boat, and some upon getting ashore. The bodies of the dead were instantly attacked by foxes.



which came to their prey without fear, as if they had never before seen man. They were obliged to drive these animals away from the corpses, the feet and hands of which were mangled before they could be interred. On the 9th of November the captain was landed, well secured from the atmosphere, and placed in a hollow by himself. The sick were all brought to the land in a day or two more; but it was remarked that, of all who took to their beds in the ship, not one survived. These were principally such as were indifferent to existence, or feared the disease, and succumbed to it. Their disorder commenced with extreme lassitude, which made the person attacked spiritless, and indifferent to everything. A sort of asthma then came on, which was felt on the smallest movement of the body. The person attacked preferred inactivity, and would rather lie down and die than move about. Soon after, the limbs were struck with severe pains, the legs became inflamed, the skin yellow, the body covered with livid marks, the teeth loose, and the mouth and gums bloody. Some of those attacked were nervous, and terrified at the slightest sound they heard. Others seemed to eat heartily, and did not think themselves in danger. They quitted their hammocks when they heard the order for going on shore, dressed themselves, and believed they should quickly be well. On leaving the interior of the ship, and the close, corrupted air of the hold, and coming into the keen atmosphere, they speedily expired.

Those survived who resisted the complaint so much as not to take to their beds, — who kept in motion on their feet as much as possible, especially if they succeeded, by natural lightness of temper, in driving away melancholy thoughts. The instances of successful resistance to the disorder were most observed in the off-

cers of the ship, who were obliged to be on deck to look into everything. The captain, alone, of all the officers, died. His age and temperament inclined him to inactivity. He took his friends, at last, for his enemies, and some could not come into his sight, on that account, towards the close of his illness. Two of the officers took the disease by remaining on board in the bad air of the hold, after the crew had quitted the ship, but they both recovered.

Behring died on the 8th of December, 1741, on the island which now bears his name. He had a great passion for voyages and travels in his youth, and had seen many parts of the world, and a great deal of service. In a previous voyage he had sailed through the strait that bears his name. He had served under Peter the Great; was made lieutenant in 1707, and captain-lieutenant in 1710. He was thus a seaman from his cradle, and was chosen to command the expedition from Kamtschatka on account of his previous services. He left his name a record to the end of time in the straits that separate Asia and America. His death was singular. He was almost buried before he breathed his last sigh. His men placed him in the most commodious spot, the day after the disembarkation of the sick commenced. He was borne with great care into a sort of tent, upon or rather in the sand, and as well secured as possible. Every day he detached the loose sand from the sides of the place where he lay, so that he soon covered his feet with it. Those who attended him cleared it away, but at last he would not suffer them to do it any more. He showed anger if it were attempted, and by degrees had so accumulated it about him that when he died he was half covered. They buried him near the spot; and the island is his monument, bearing his name in the charts of all nations.

Not long after the death of the captain, the Russians saw their vessel wrecked before their eyes. It was their only means of escape from the dreary spot in which they were wintering. A storm arose on the 29th of December, the cable snapped, and the ship came ashore almost close to where the Russians were living. In the morning she was found buried eight or ten feet in sand, and completely shattered. The sea had spoiled a great proportion of their remaining provisions. This was a fearful loss to them.

They had now two important objects to attain. The first was to discover on what part of the world they had been cast. The second, to find the means of subsistence. Parties were sent out to explore. After an absence of three days, one returned, and stated that they had not perceived the least trace of men, but they had seen a great number of what were called in Kamtschatka sea-beavers. They had also seen a great number of blue and white foxes, which showed no signs of fear upon observing them. Hence they concluded that the country on which they had landed was not inhabited. They set out again more in the interior of the island, with the design to cross the country to the opposite side from that where they had come on shore. They found a high hill three or four leagues from the sea, and, ascending it, could see the sea both to the eastward and westward of them, from which observation they had no doubt they were upon an island. They found no trees, except a few willows on the sides of a rivulet.

Having thus satisfied themselves they were upon an island, they proceeded to examine what stores and provisions had been left them that they could use. They first made a reserve of eight hundred-weight of flour, which was to serve as sea stock in their voyage to

Kamtschatka, after which they regulated the daily allowance of each person. Although thirty of the crew had died, there would not have been sufficient for their subsistence, had there not been wild animals on the island to eke out their stores.

The flesh of the beavers was hard and stringy. They killed a great number for their skins, of which they collected nine hundred. The surgeon had three hundred to his own share when they embarked from the island to return to Siberia.

In the month of March no more beavers were seen, and in their places seals made their appearance. The flesh of these animals they found disagreeable. They were relieved from the necessity of feeding upon them by killing sea-lions, the flesh of which they found excellent. The walrus, or sea-horse, was also taken, and served them for food. One of these, of eight hundred-weight, was sufficient for fifteen days' consumption. The flesh was like beef, and that of the young ones not inferior to the best veal. The fat, which lined the flesh to the depth of three or four inches, very much resembled lard; and the Russians used it as a substitute for butter. They filled several hogsheads with the flesh, which they salted, as part of their provisions for their future voyage.

A whale came on shore during the winter near their habitation, and, being short of other food at the time, they cut out the blubber in square masses, and boiled it to separate the oil, which they ate. On the commencement of spring, a second whale was cast on shore in the same way, and then, rejecting the stale meat, they supplied themselves with that which was more fresh.

When the snow melted in the month of March, 1742, these unfortunate men began to think of some means of return. They were forty-five in number. The chief

officer, Mr. Waxall, proposed that the old vessel should be pulled to pieces, and a new one constructed, of a size to carry them all. This plan was unanimously adopted. It was now the beginning of April, a favorable time to commence operations. All took their share in the work, and the entire month was employed in breaking up the wreck to obtain materials for the new vessel.

Three Russian carpenters had died since their arrival on the island, and there was not one left. A Cossack of Siberia, named Sawa Slaradoubzov, who had worked in the yard at Okhotsk, offered to construct the vessel if the proportions were given to him. He succeeded in laying down the new ship, a service considered of such importance, as well as ingenuity, that he was rewarded, on his return, by being elevated to the rank of Sinboiar-skoy, the lowest degree of nobility in Russia.

On the 6th of May they began to construct their new ship. It was forty feet long by thirteen broad. At the beginning of June it was ready for planking up, the frame being complete. It had but one mast and deck, a cabin was built on the poop, and a cooking place in the forepart of the vessel; it had four places for oars on each side. Many things were still wanting, but they nevertheless proceeded to calk the planks, that the ship might be got ready for sea. They took care to construct a boat to accompany their vessel, capable of holding nine or ten persons.

They launched their vessel on the 10th of August, and called it the St. Peter, after the ship out of which she had been built. The shot and iron-work of the old vessel they employed for ballast in the new. The weather was fortunately calm for six days, during which time they got in the mast and rudder, bent the sails and took in their provisions. Their vessel drew five feet water. All having embarked, they set sail on the 16th



They cleared the rocks by the aid of their oars, and continued to row until they were about three leagues at sea, when they hoisted their sails with a slight breeze from the north. They found that their ship sailed and worked as well as if she had been built by able workmen. On the 18th, they had a strong gale against them from the south-west. The fear of a storm made them fling a part of their ballast overboard. On the 25th, they came in sight of Kamtschatka, entered the Bay of Awatska the next day, and on the 27th anchored in the port of Petropalauski.

In 1760, Schalaroff, a merchant of Yakutsk, whose name is venerated throughout Siberia, determined on trying whether the passage attempted by Behring could or could not be accomplished. He persevered during three seasons, in defiance of mutiny and hardships innumerable. He, too, was wrecked on the desolate coast seventy miles east of Cape Chelagskoi, and, with all his crew, died of starvation. Three years later, Sergeant Andrejeff conducted a sledge expedition across the ice to the Bear Islands; his reports, which were much exaggerated, led shortly afterwards to the accurate survey of this and the adjacent country. Cook's exploration, of which we shall hereafter speak, led to another expedition on the part of the Russians, which sailed from the Kolyma in 1787, under Captain Billings; but the attempts made to navigate either to the east or the west were both defeated. Further efforts were made at intervals during the first quarter of the present century, some of them mainly to search for the northern continent, whose existence, far in the Polar Sea, had so often been the subject of rumor.

Last we come to the expeditions commanded by Lieutenant Anjou and Admiral von Wrangell, carried on also by means of dogs and sledges, from the year

1820 to 1823; the latter taking the mouth of the Kolyma for his starting-point, the former the river Iana. These undertakings were especially promoted by the Emperor Alexander, and were conducted with all the care and skill warranted by an advanced state of science and philosophy. They failed but in one particular — the discovery of the northern continent. How diligently and perseveringly this was searched for, is best proved by the narrative of perils endured, even to the risk of life, in the arduous enterprise. Three times was the frozen surface of the sea traversed without leading to any definite result; on the fourth journey, in March, 1823, Von Wrangell reached the latitude of  $70^{\circ} 51'$ , longitude  $175^{\circ} 27'$  west — one hundred and five wersts in a direct line from the mainland. Soundings gave a depth of twenty-two and a half fathoms; the ice here was thin and weak. More than once the party had only been saved from breaking through by the speed at which the dogs travelled over it. In the distance a screen of dense blue vapor — a certain indication of open water — was visible, on which the admiral remarks:

“Notwithstanding this sure token of the impossibility of proceeding much further, we continued to go due north for about nine wersts, when we arrived at the edge of an immense break in the ice, extending east and west further than the eye could reach, and which at the narrowest part was more than a hundred and fifty fathoms across. \* \* \* \* We climbed one of the loftiest ice hills, where we obtained an extensive view towards the north, and whence we beheld the wide, immeasurable ocean spread before our gaze. It was a fearful and magnificent, but to us a melancholy spectacle. Fragments of ice of enormous size floated on the surface of the agitated ocean, and were thrown by the waves with awful violence against the edge of the ice-field on the

further side of the channel before us. The collisions were so tremendous, that large masses were every instant broken away ; and it was evident that the portion of ice which still divided the channel from the open ocean would soon be completely destroyed. Had we attempted to have ferried ourselves across upon one of the floating pieces of ice, we should not have found firm footing upon our arrival. Even on our own side, fresh lanes of water were continually forming, and extending in every direction in the field of ice behind us. With a painful feeling of the impossibility of overcoming the obstacles which nature opposed to us, our last hope vanished of discovering the land, which we yet believed to exist."

On returning from this extreme limit of their adventurous journey, the party were placed in a situation of extreme risk. " We had hardly proceeded one verst," writes M. von Wrangell, " when we found ourselves in a fresh labyrinth of lanes of water, which hemmed us in on every side. As all the floating pieces around us were smaller than the one on which we stood, which was seventy-five fathoms across, and as we saw many certain indications of an approaching storm, I thought it better to remain on the larger mass, which offered us somewhat more security ; and thus we waited quietly whatever Providence should decree. Dark clouds now rose from the west, and the whole atmosphere became filled with a damp vapor. A strong breeze suddenly sprang up from the west, and increased in less than half an hour to a storm. Every moment huge masses of ice around us were dashed against each other, and broken into a thousand fragments. Our little party remained fast on our ice-island, which was tossed to and fro by the waves. We gazed in most painful inactivity on the wild conflict of the elements, expecting





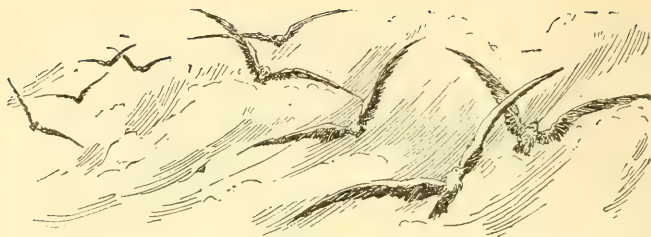


every moment to be swallowed up. We had been three long hours in this position, and still the mass of ice beneath us held together, when suddenly it was caught by the storm, and hurled against a large field of ice. The crash was terrific, and the mass beneath us was shattered into fragments. At that dreadful moment, when escape seemed impossible, the impulse of self-preservation implanted in every living being saved us. Instinctively we all sprang at once on the sledges, and urged the dogs to their full speed. They flew across the yielding fragments to the field on which we had been stranded, and safely reached a part of it of firmer character, on which were several hummocks, and where the dogs immediately ceased running, conscious, apparently, that the danger was past. We were saved: we joyfully embraced each other, and united in thanks to God for our preservation from such imminent peril."

More than once during this trip the party heard from the Tchukhtches that land could be seen far away in the northern seas. The part of the coast alluded to was Cape Jakan, which the explorers afterwards visited; but, although "they gazed long and earnestly on the horizon, in hopes, as the atmosphere was clear, of discerning some appearance of the northern land," they "could see nothing of it."



ICE-RAFT.



### CHAPTER III.

OFFER OF PARLIAMENT. — HEARNE'S JOURNEY. — PHIPPS. — NELSON. — COOK. — MACKENZIE. — SIR JOHN ROSS'S FIRST VOYAGE. — BUCHAN AND FRANKLIN. — DANGEROUS SITUATION OF THE TRENT AND DOROTHEA.

IN 1743 the British Parliament offered a reward of twenty thousand pounds to any one who should sail to the north-west by way of Hudson's Strait, which passage, it was declared, would be "of great benefit and advantage to the kingdom." Between 1769-72 Mr. Hearne undertook three overland journeys across the territories of the Hudson's Bay Company, to the shores of the Polar Sea. He failed in the first two attempts; in the third he succeeded in reaching a large and rapid river, -- the Coppermine, -- and followed it down nearly to its mouth; but, as there is reason to believe, without actually viewing the sea. The proof of the existence of the river was the most important result of Mr. Hearne's labors; for such scientific observations as he attempted are loose and unsatisfactory.

In the following year (1773), in consequence of communications made to the Royal Society on the possibility of reaching the North Pole, Captain Phipps (afterwards Lord Mulgrave) was sent out with two vessels to effect this interesting object. He coasted the eastern shore of Spitzbergen to  $80^{\circ} 48'$  of latitude, and was there stopped by the ice. With Phipps on this expedition was Nelson, the future naval hero of England, then a mere boy. Young as he was, he was on one occasion appointed to command a boat, sent out to

explore a passage into the open water. It was the means of saving another boat from imminent danger. One of the officers had wounded a walrus. As no other animal has so human-like an expression of countenance, so also is there no one that seems to possess more of the passions of humanity. The wounded animal dived immediately, and brought up a number of its companions; and they all joined in an attack on the boat. They wrested an oar from one of the men, and it was with the utmost difficulty that the crew could prevent them from staving or upsetting her, till Nelson came up: and the walruses, finding their enemies thus reinforced, dispersed. Young Nelson exposed himself in a most daring manner.

For a time Captain Phipps was so surrounded by ice



that he made preparations to abandon his ships. On the 7th of August the men began to haul the boats over

the ice. But on the 9th the ships were moved a little through some small openings ; and in the course of the day they got past the boats, and took them on board again. On the morrow a favorable wind sprang up ; all sail was set, and, after forcing their way through much heavy ice, the ships cleared it, and gained the open sea. The season was now so far advanced that nothing more could be attempted, and the expedition returned to England.

In 1776 Cook sailed on the fatal expedition which cost England her famous navigator, with instructions to attempt the passage of the Icy Sea from Behring's Strait to Baffin's Bay. The clause of the act above referred to, wherein Hudson's Strait was exclusively specified, was altered to include "any northern passage" for ships ; and five thousand pounds was further voted to any one who should get within one degree of the pole. Cook, with all his perseverance, could not penetrate beyond Icy Cape, latitude  $70^{\circ} 20'$ , where he found the ice stretching in a compact mass across to the opposite continent, which he also visited, sailing as far as Cape North, on the coast of Asia. It would appear that expectations prevailed of the enterprising mariner's success ; for a vessel was sent to Baffin's Bay to wait for him, in 1777, in charge of Lieutenant Pickersgill.

One other journey within this century remains to be noticed — that by Mackenzie, under sanction of the Hudson's Bay Company, with objects similar to those of Hearne. In 1789 he left Fort Chipewyan, crossed Slave Lake, and descended the Mackenzie River, a stream of much greater magnitude than the Coppermine, to an island where the tide rose and fell. But, as in the case of his predecessor, we have no certainty that he reached the ocean. Rivers, however, play an important part in Arctic discovery ; and it was something gained to know

that the sea could be reached by their means. We may here observe, once for all, that these land expeditions, whose prime object has been to determine the northern coast-line of America, are not to be confounded with the attempts to discover the north-west passage.

The result of these discouragements was a cessation of naval researches, which continued for many years ; but at length a change took place, as sudden and inexplicable as the accumulation of ice from centuries before which cut off the Danish colonies in Greenland from communication with the mother country. In 1816-17, the Greenland whalers reported the sea to be clearer of ice than at any former time within their knowledge. This fact engaged the attention of the British Admiralty ; and the Council of the Royal Society were consulted as to the prospects of renewed operations in the Arctic regions. Their reply was favorable ; and in 1818 two expeditions were fitted out—the one to discover the north-west passage, the other to reach the pole. Captain (soon Sir John) Ross and Lieut. (soon Sir Edward) Parry, in the vessels *Isabella* and *Alexander*, were intrusted with the former of these objects. They were especially charged to examine the great openings described by Baffin as existing at the head of the vast bay which he so diligently explored ; and, in carrying out these instructions, the commanders found full reason to applaud the care and perseverance of the able navigator, who had preceded them by two hundred years. It must be remembered that we are now treating of a period when science put forward its imperative claims, and when, as at present, something more was required than a meagre chart of a previously-unexplored coast, and graphic accounts of new countries and their inhabitants. Astronomy, geology, meteorology, magnetism, natural history, were all clamorous for new facts, or for



satisfactory tests of those already known ; and not only men of science, but the public at large, looked with deep interest to the results.

The open state of the sea greatly facilitated the purposes of the expedition. On the 18th of April the navigators sailed down the Thames, and by the end of the month were off the Shetland Islands. On the 27th of May they came in view of Cape Farewell, round which, as usual, were floating numerous and lofty icebergs of the most varied forms and tints. On the 14th of June they reached the Whale Islands, where they were informed by the governor of the Danish settlement that the past winter had been uncommonly severe ; that the neighboring bays and straits had been all frozen two months earlier than usual ; and that some of the channels northward of his station were still inaccessible, owing to the ice. On the 17th of June, in the neighborhood of Waygat Island, an impenetrable barrier obliged the discoverers to stop their course, making themselves fast to an iceberg, and having forty-five whale-ships in company. Observations made ashore proved this island to be misplaced on the maps by no less than five degrees of longitude. On the 7th of August, in the same latitude, a heavy gale sprang up, which, driving the ice against the vessels, made a display of its terrible power. Providentially, when instant destruction was expected, the mass receded, and the ships, owing to the extraordinary strength of their construction, escaped without material injury.

Proceeding along a high mountainous coast, the expedition came to a tribe of Esquimaux, who, of all human beings, seemed to live in a state of the deepest seclusion. They had never before seen men belonging to the civilized world, or to a race different from their own. The first party whom the navigators approached

showed every sign of alarm, dreading, as was afterwards understood, a fatal influence from the mere touch of beings whom they regarded as members of an unknown species. They soon, however, acquired greater confidence, and gave the usual proof of it by making free with whatever they could carry away. Following the general usage, they have sledges drawn by large and powerful teams of dogs; their chase is chiefly confined to hares, foxes of various colors, the seal, and the narwal. They rejected with horror the proffered luxuries of biscuit, sweetmeats, or spirits; train-oil, as it streamed from various species of fish, alone gratified their palate. Captain Ross, swayed by national impressions, gave to this district the name of the Arctic Highlands.

In the northern part of this coast the navigators observed a remarkable phenomenon — a range of cliffs, the snowy covering of which had exchanged its native white for a tint of deep crimson. The latest observations on this red snow have established the vegetable origin of the color.

Having now passed Cape Dudley Digges, the commodore found himself among those spacious sounds which Baffin had named, but so imperfectly described. They all appeared to him, however, to be either bays enclosed by land, or obstructed by impenetrable barriers of ice. He sailed past Wolstenholme and Whale Sounds very quickly, without approaching even their entrance, concluding them to be blocked up with ice, and to afford no hope of a passage. As these openings stretched towards the north, it must be admitted that they could not, in this high latitude, be considered very favorable as to the object he had in view. He came next to Sir Thomas Smith's Sound, which Baffin described as the most spacious in the whole circuit of these coasts. This was regarded with greater attention ;

but Captain Ross satisfied himself that he had distinctly seen it, at the distance of eighteen leagues, completely enclosed by land. He soon arrived at an extensive bay, which had hitherto been unobserved; afterwards to that which Baffin called Alderman Jones's Sound: but in respect to both, the ice at their entrance, and the apparent boundary of high land in the interior, led, as in the other instances, to an unfavorable conclusion.

The season was now somewhat advanced, the end of August approached, the sun set after an uninterrupted day of two months and a half, and a thick fog rendered the lengthening nights more gloomy. The land, seen at some distance, consisted of very high and steep hills, presenting, however, some spots fit for human habitation. An opening forty-five miles wide, to the southward of a promontory which was named Cape Charlotte, was decided against on the usual grounds. On the 30th of August the expedition came to a most magnificent inlet, bordered by lofty mountains of peculiar grandeur, while the water, being clear, and free from ice, presented so tempting an appearance, that it was impossible to refrain from entering. This channel, which soon proved to be Lancaster Sound, was ascended for thirty miles, during which run officers and men crowded the topmast, filled with enthusiastic hope, and judging that it afforded a much fairer prospect of success than any of those so hastily passed. Captain Ross, however, soon thought that he discovered a high ridge stretching directly across the inlet; and though a great part of it was deeply involved in mist, a passage in this direction was by him judged to be hopeless. The sea being open, however, the commander proceeded; but about twelve o'clock, Mr. Beverley, the assistant-surgeon, came down from the crow's nest, and stated that he had seen the land extending very nearly across the entire

bay. Hereupon, it is said, all hopes were renounced, even by the most sanguine, and Captain Ross sailed on ward merely for the purpose of making some magnetic observations.

At three o'clock, the sky having cleared, the commander himself went on deck, when he states that he distinctly saw across the bottom of the bay a chain of mountains, continuous, and connected with those which formed its opposite shores. The weather then becoming unsettled, he made the signal to steer the vessels out of Lancaster Sound.

On regaining the entrance of this great channel, Captain Ross continued to steer southward along the western shore, without seeing any entrance which afforded equal promise. Cumberland Strait alone was similar in magnitude; but, as it could lead only into the higher latitudes of Hudson's Bay, it afforded little chance of a passage into the Arctic Sea. After surveying, therefore, some of these shores, he returned home early in October. The captain arrived in England under the most decided conviction that Baffin's observations had been perfectly correct, and that Lancaster Sound was a bay, affording no entrance into any western sea. If even any strait existed between the mountains, it must, he conceived, be forever innavigable, on account of the ice with which it is filled.

The *Dorothea* and *Trent*, commanded by Captain Buchan and Lieut. (afterwards Sir John) Franklin, comprised the expedition destined for the pole. Franklin, in regard to whose fate so much public interest was in subsequent years excited, entered the navy in early life as midshipman of the *Porpoise*, one of the ships employed by Captain Flinders on the survey of the coasts of Australia, and was wrecked in her. Next in the *Polyphemus*, as midshipman and master's mate, from

1801 to 1808, he was in the fleet with Nelson at the battle of Copenhagen. He was next appointed acting-lieutenant in the Bedford; and was lieutenant of the Bellerophon in the battle of Trafalgar, in 1805, and also in the Bedford in the attack on New Orleans, in 1815, where he commanded in the boats, was wounded, gazetted, and highly spoken of. He was considered a good nautical surveyor, well versed in the use of instruments, and a thorough seaman.

Captain Beechey, to whom we are indebted for an interesting account of the present voyage, observes: "The peculiarity of the proposed route afforded opportunities of making some useful experiments on the elliptical figure of the earth; on magnetic phenomena; on the refraction of the atmosphere in high latitudes in ordinary circumstances, and over extensive masses of ice; and on the temperature and specific gravity of the sea at the surface, and at various depths; and on meteorological and other interesting phenomena." The vessels sailed in April, 1818: Magdalena Bay, in Spitzbergen, having been appointed as a place of rendezvous, in case of separation.

Though this expedition, like that of Ross, was a failure in its main object, yet, unlike the other, it was not owing to any want of exertion, zeal, or intelligence, in the two commanders or officers; on the contrary, the two ships were supplied with some of those who, in future voyages, so greatly distinguished themselves as to obtain the highest steps of promotion, and to receive honorary rewards. The instructions directed that they were to make the best of their way into the Spitzbergen seas, where they should endeavor to pass to the northward, between Spitzbergen and Greenland, without stopping on either of their coasts, and use their best endeavors to reach the North Pole; with a suggestion,



that where the sea is deepest and least connected with the land, it will be found most clear of ice.

On the 18th of May the ships encountered a severe gale, and under even storm staysails were buried gun-wale deep in the waves. On the 24th they sighted Cherie Island, situated in lat.  $74^{\circ} 33' N.$ , and long.  $17^{\circ} 40' E.$ , formerly so noted for its fishery, being much frequented by walruses. For many years the Muscovy Company carried on a lucrative trade by sending ships to the island for oil; as many as a thousand animals being often captured by the crew of a single ship in the course of six or seven hours.

The discovery ships passed slowly through the small floes and huge masses of ice which floated by in succession. The progress through such a labyrinth of frozen masses was a most interesting sight. The officers and crew did not tire of watching the scene. Captain Beechey thus describes the general impression created: "Very few of us had ever seen the sun at midnight; and this night happening to be particularly clear, his broad red disc, curiously distorted by refraction, and sweeping majestically along the northern horizon, was an object of imposing grandeur, which riveted to the deck some of our crew, who would perhaps have beheld with indifference the less imposing effect of the icebergs. The rays were too oblique to illuminate more than the inequalities of the floes, and, falling thus partially on the grotesque shapes, either really assumed by the ice or distorted by the unequal refraction of the atmosphere, so betrayed the imagination that it required no great exertion of fancy to trace in various directions architectural edifices, grottos, and caves, here and there, glittering as if with precious metals."

At Cherie Island the walruses were found very numerous. Of the habits and character of the walrus

Lieut. Beechey gives, after frequent intercourse with them, a very interesting account. Their affection for their young, and their unflinching courage in defending them, are remarkable ; not more so their compassionate conduct toward a wounded companion, whom they will never leave till carried off to a place of safety ; and even the young ones on such occasions will turn fiercely against the boats of the pursuers. A single instance will suffice to show the care and affection bestowed on their young.

“ We were greatly amused by the singular and affectionate conduct of a walrus towards its young. In the vast sheet of ice that surrounded the ships there were occasionally many pools ; and, when the weather was clear and warm, animals of various kinds would frequently rise and sport about in them, or crawl from thence upon the ice to bask in the warmth of the sun. A walrus rose in one of these pools close to the ship, and, finding everything quiet, dived down and brought up its young, which it held by its breast by pressing it with its flipper. In this manner it moved about the pool, keeping in an erect posture, and always directing the face of the young toward the vessel. On the slightest movement on board, the mother released her flipper and pushed the young one under water ; but, when everything was again quiet, brought it up as before, and for a length of time continued to play about in the pool, to the great amusement of the seamen, who gave her credit for abilities in tuition which, though possessed of considerable sagacity, she hardly merited.”

On one occasion, some of the crew of the Trent, having wounded a walrus, took to their boat, when they were assailed by a large number of walruses. These animals rose, snorting with rage, and rushed at the boat ; and it was with the utmost difficulty they were prevented

from upsetting or staving it. They would place their tusks on the gunwale, or rush at it with their heads. The herd was so numerous, and their attacks so incessant, that there was not time to load a musket. The purser fortunately had his gun loaded, and the men now being nearly exhausted with chopping and sticking at their assailants, he snatched it up, and, thrusting the muzzle down the throat of a large and formidable walrus, who seemed to be the leader of the herd, fired into his bowels. The wound proved mortal, and the anima'



ATTACK BY WALRUSES.

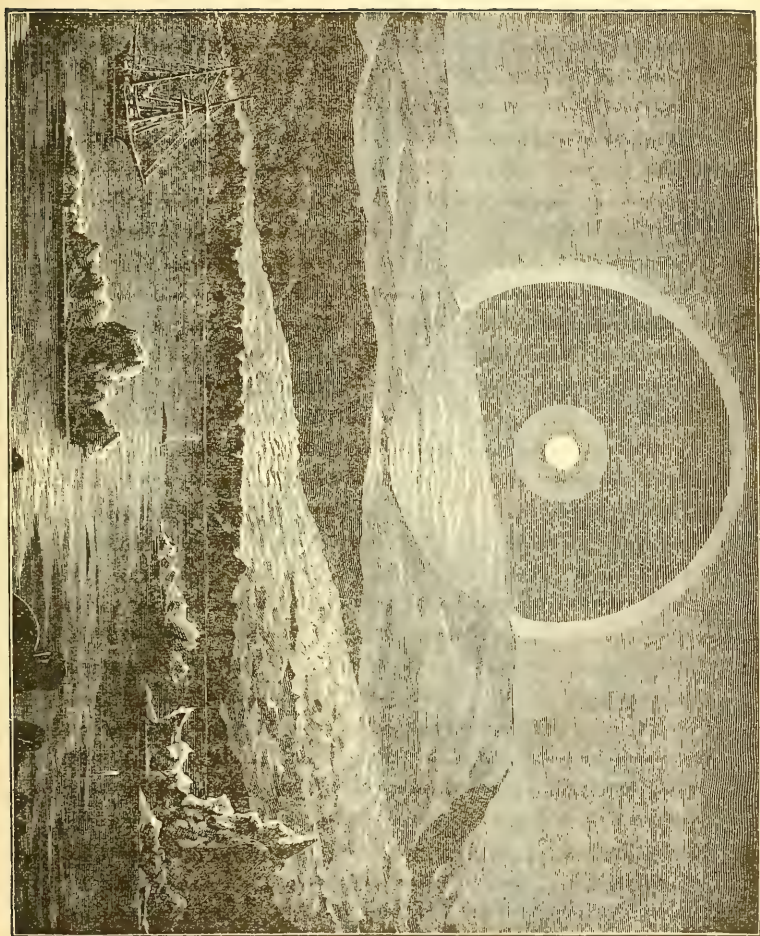
fell back among his companions, who immediately desisted from the attack, assembled round him, and in a moment quitted the boat, swimming away as hard as they could with their leader, whom they actually bore up with their tusks, and assiduously preserved from sinking.

Many similar acts of compassion, on the part of these animals towards their wounded companions, were observed. On one occasion, when several walruses

were attacked upon a beach, near Magdalena Bay, the first discharge of muskets drove all those who could crawl into the sea ; but, immediately upon their panic subsiding, they returned to the shore and dragged their wounded companions into the water, either by main force, or by rolling them over with their tusks.

On the 28th of May, the weather being foggy and severe, with heavy falls of snow, the ships separated, and the Trent stood to the northward toward Magdalena Bay, the place of rendezvous, along the edge of the main body of ice : they met here, and, seeing it impossible to penetrate the marginal line of the ice, and the season being very early, the commander determined on passing a few days in that bay, in which they anchored on the 3d of June. The ice was in the cove and upper part of the harbor, but was in a rapidly decaying state, and, on revisiting their anchorage here in the beginning of August, it had entirely disappeared. Magdalena Bay is rendered conspicuous by four glaciers, the smallest two hundred feet above the sea, on the slope of a mountain. It is called the Hanging Iceberg, and seems, so Beechey says, as if a very slight matter would detach it from the mountain, and precipitate it into the sea. The largest of the four extends two or three miles inland : owing to the great rents in the surface, it has been named the Wagon-way, from the resemblance of the fissures to ruts made by wheels. Several glaciers similar to those were observed near Dane's Gut, the largest about ten thousand feet in length by two or three hundred feet in perpendicular height. In the vicinity of these icebergs a strict observance of silence is necessary the explosion of a gun scarcely ever fails to bring down one of these masses. Mr. Beechey says that on two occasions they witnessed avalanches on the most magnificent scale.





A BEAUTIFUL ACROIA AND GLACIER.





"The first was occasioned by the discharge of a musket at about half a mile's distance from the glacier. Immediately after the report of the gun, a noise resembling thunder was heard in the direction of the iceberg (glacier), and in a few seconds more an immense piece broke away, and fell headlong into the sea. The crew of the launch, supposing themselves beyond the reach of its influence, quietly looked upon the scene, when presently a sea arose and rolled toward the shore with such rapidity, that the crew had not time to take any precautions, and the boat was in consequence washed upon the beach, and completely filled by the succeeding wave. As soon as their astonishment had subsided, they examined the boat, and found her so badly stove that it became necessary to repair her in order to return to the ship. They had also the curiosity to measure the distance the boat had been carried by the wave, and found it to be ninety-six feet."

In viewing the same glacier from a boat at a distance, a second avalanche took place, which afforded them the gratification of witnessing the creation, as it were, of a sea iceberg; an opportunity which has occurred to few, though it is generally understood that such monsters can only be generated on shore.

"This occurred on a remarkably fine day, when the quietness of the bay was first interrupted by the noise of the falling body. Lieutenant Franklin and myself had approached one of these stupendous walls of ice, and were endeavoring to search into the innermost recess of a deep cavern that was near the foot of the glacier, when we heard a report as if of a cannon, and, turning to the quarter whence it proceeded, we perceived an immense piece of the front of the berg sliding down from the height of two hundred feet at least into the sea, and dispersing the water in every direction, accompanied by

a loud, grinding noise, and followed by a quantity of water, which, being previously lodged in the fissures, now made its escape in numberless small cataracts over the front of the glacier."

After describing the disturbance occasioned by the plunge of this enormous fragment, and the rollers which swept over the surface of the bay, and obliged the *Dorothea*, then careening at the distance of four miles, to aright, by releasing the tackles, he thus proceeds :

"The piece that had been disengaged at first wholly disappeared under water, and nothing was seen but a violent boiling of the sea, and a shooting up of clouds of spray, like that which occurs at the foot of a great cataract. After a short time it reappeared, raising its head full a hundred feet above the surface, with water pouring down from all parts of it; and then, laboring as if doubtful which way it should fall, it rolled over, and, after rocking about some minutes, at length became settled. We now approached it, and found it nearly a quarter of a mile in circumference, and sixty feet out of the water. Knowing its specific gravity, and making a fair allowance for its inequalities, we computed its weight at 421,660 tons. A stream of salt water was still pouring down its sides, and there was a continual cracking noise, as loud as that of a cart-whip, occasioned, I suppose, by the escape of fixed (confined) air."

Mr. Beechey confirms what has frequently been found and noticed -- the mildness of the temperature on the western coast of Spitzbergen, there being little or no sensation of cold, though the thermometer might be only a few degrees above the freezing point. The brilliant and lively effect of a clear day, when the sun shines forth, with a pure sky, whose azure hue is so intense as to find no parallel even in the boasted Italian sky, affords,

in Mr. Beechey's opinion, a full compensation for the cloudy and misty weather, when the hills are clothed with new-fallen snow, and all appears dreary and desolate. The radiation of the sun, he observes, in some sheltered situations, is so powerful, during two hours on either side of noon, that they frequently observed the thermometer upon the ice in the offing at  $58^{\circ}$ ,  $62^{\circ}$ ,  $67^{\circ}$ ; and once at *midnight* it rose to  $73^{\circ}$ , although in the shade at the same time it was only  $36^{\circ}$ . Hence are found varieties of Alpine plants, grasses, and lichens, such as in the more southern aspects flourish in great luxuriance; they are here found ascending to a considerable height, "so that," says Beechey, "we have frequently seen the reindeer browsing at an elevation of fifteen hundred feet."

On account of the mildness of the temperature, the shores of Spitzbergen are frequented by multitudes of animals of various descriptions. "From an early hour in the morning until the period of rest returned, the shores around us reverberated with the merry cry of the little auk, willocks, divers, cormorants, gulls, and other aquatic birds; and, wherever we went, groups of walruses, basking in the sun, mingled their playful roar with the husky bark of the seal." The little auks or rotges (the *Alca alle*) are stated to be so numerous, that "we have frequently seen an uninterrupted line of them extending full half-way over the bay, or to a distance of more than three miles, and so close together that thirty have fallen at one shot. This living column might be about six yards broad and as many deep; so that, allowing sixteen birds to a cubic yard, there would be four millions of these creatures on the wing at one time." This number, he adds, appears very large; yet, when it is told that the little rotges rise in such multitudes as to darken the air, and that their chorus is

distinctly audible at a distance of four miles, the estimate will not appear to be exaggerated.

At Vogel Sang and Cloven Cliff, between which is Fair Haven, wherein the ships anchored, the surrounding islands are described as clothed with lichens and other rich pasturage for reindeer, which creatures are here so abundant (upon Vogel Sang in particular), that this island alone supplied the expedition with forty carcasses in high condition, the fat on the loins being from four to six inches thick, and a carcass prepared for dressing weighing two hundred and eighty-five pounds. These fine creatures showed evident marks of affection for each other. "They were at this time in pairs, and when one was shot the other would hang over it, and occasionally lick it, apparently bemoaning its fate; and, if not immediately killed, would stand three or four shots rather than desert its fallen companion." "This compassionate conduct," continues Beechey, "it is needless to say, doubled our chance of success, though I must confess it was obtained in violation of our better feelings." These animals are said to take to the water freely, and swim from one island to another. The boats of the Trent took four, which they wished to retain alive; but they were so wild that they broke their slender limbs, and inflicted other serious wounds, so that it became necessary to put an end to their sufferings by killing them.

At one of the islets near Vogel Sang were also the King Eider-ducks, in such numbers that it was impossible, almost, to walk without treading on their nests, which they defended with determined resolution. If driven off by foxes, or other large animals, they hastily draw the down of the nest over the eggs, and glue it with a yellow fluid, not only to preserve the warmth of the eggs, but that, being of so offensive a nature, the



foxes would not touch the eggs tainted with it. Foxes and bears are everywhere found on the shore and on the ice ; and the sea about Spitzbergen is as much alive as the land, from the multitude of burgomasters, stront-jaggers, malmouks, kittiwakes, and the rest of the gull tribe, while the amphibious animals and the fish enliven both the ice and the water, from the huge whale to the minute clio on which it feeds, swallowing perhaps a million at a mouthful. In this respect of animal life, the Arctic regions of the globe essentially differ from those within the Antarctic Circle, where all appears to be stillness, silence, and solitude.

On the 7th of June the ships left Magdalena Bay, and were hampered with fragments of ice, usually called *brash-ice*, which, as they proceeded, became thicker and more solid, and, indeed, impenetrable ; but a breeze opened and dispersed it, and carried the ships into clear water. In going westerly they fell in with several whale-ships, by which they learned that the ice in that quarter was quite compact, and that fifteen vessels were beset in it. Buchan, therefore, stood to the northward. They passed Cloven Cliff, — a remarkable isolated rock, which marks the north-western boundary of Spitzbergen, — and also Red Bay, when they were stopped by the ice closing the channel between it and the shore, and became firmly fixed. By great exertions, however, they got into the floe of ice, where they remained thirteen days, when the field began to separate, and to set to the southward, at the rate of three miles an hour, and the ships got into an open sea, where, however, they were not long permitted to remain, and took shelter in Fair Haven.

Finding, from the view afforded by the hills, that the ice was driving to the northward, they again put to sea on the 6th of July, and sailed as far as  $80^{\circ} 15' N$  where

the same impenetrable barrier obstructed their further progress. On the following day, however, so rapid had been the motion of the ice during the night, that channels of water were observed in every quarter, and the wind was favorable for proceeding along one of the open channels. Captain Buchan lost not a moment in pushing his ship into one of these openings, spreading every sail his masts would bear, and was cheerfully followed by his enterprising consort, to the great joy of all on board. In the evening, however, the channels began to close again, and the vessels were soon beset and pressed close by the packed ice. This was the end of their voyage northward, and the latitude gained was  $80^{\circ} 34' N.$  In vain they labored two days in dragging the vessels with ropes and ice-anchors; for, though they had left the ice behind them, the current had carried them back to the southward three miles, and it was clear that all attempts to get one mile further to the northward would be vain.

Captain Buchan being now satisfied that he had given the ice a fair trial in the vicinity of Spitzbergen, resolved on standing over toward the coast of Greenland. Having succeeded in getting the ships to the edge of the pack, and sailing along it, a violent gale of wind came on so suddenly that they were at once reduced to storm staysails. The ice was setting fast upon them, and the *Dorothea* being nearest to it, in order to escape immediate shipwreck, it was deemed necessary to take refuge among it. The *Trent* followed her example, and dashed into the "unbroken line of furious breakers, in which immense pieces of ice were heaving and subsiding with the waves, and dashing together with a violence which nothing, apparently, but a solid body, could withstand, occasioning such a noise that it was with the greatest difficulty we could make our orders heard by the crew."



A SUPERB GLACIER ON A MOUNTAIN IN MAGDALENA BAY.



"No language," he says, "I am convinced, can convey an adequate idea of the terrific grandeur of the effect now produced by the collision of the ice and the tempestuous ocean."

But when the moment arrived that the strength of the little bark was to be placed in competition with that of the great icy continent, and doubts might reasonably have arisen of her surviving the unequal conflict, the crew preserved the greatest calmness and resolution.

Captain Beechey says :

"If ever the fortitude of seamen was fairly tried, it was assuredly not less so on this occasion ; and I will not conceal the pride I felt in witnessing the bold and decisive tone in which the orders were issued by the commander of our little vessel (Franklin), and the promptitude and steadiness with which they were executed by the crew. Each person instinctively secured his own hold, and, with his eyes fixed upon the masts, awaited in breathless anxiety the moment of concussion. It soon arrived ; the brig, cutting her way through the light ice, came in violent contact with the main body. In an instant we all lost our footing, the masts bent with the impetus, and the cracking timbers from below bespoke a pressure which was calculated to awaken our serious apprehensions."

Captain Beechey proceeds to give a vivid and graphic account of the state of the ship, accompanied by a spirited and well-executed print, descriptive of her situation. "Her motion," he says, "was so great, that the ship's bell, which in the heaviest gale of wind had never struck of itself, now tolled so continually that it was ordered to be muffled for the purpose of escaping the unpleasant association it was calculated to produce." After a few hours the gale ceased, and the pack broke up sufficiently to release the ships, which were so disabled that the



Dorothea was in a foundering condition. They made the best of their way to Fair Haven in a sinking state, where they repaired their damages as well as they could ; it was obvious, however, there was an end to any further attempt as regarded the main object of the expedition. The Trent being the less damaged of the two, Lieutenant Franklin requested that he might be allowed to proceed alone in the execution of the service. This could not be acceded to, as, in the event which had occurred, Captain Buchan was directed by his instructions to take command of the Trent, provided her consort was rendered unserviceable ; had he done so, the Dorothea, unaccompanied in her way home, might have risked the lives of her crew in a ship so shattered and unsafe. It was therefore decided that both should return home ; and on the 30th of August they put to sea, and on the 22d of October arrived at Deptford.



SITUATION OF THE TRENT.



## CHAPTER IV.

PARRY'S FIRST VOYAGE.—ICEBERGS.—PASSAGE THROUGH LANCASTER SOUND.—PRINCE REGENT'S INLET.—WELLINGTON CHANNEL.—MELVILLE ISLAND.—WINTER QUARTERS.—SCURVY.—SNOW BLINDNESS.—THEATRICALS.—BREAKING UP OF THE ICE.—RETURN OF THE EXPEDITION.

MUCH dissatisfaction was felt in England at the result of Ross's expedition, described in the last chapter. The grounds, in particular, on which Lancaster Sound, an opening so spacious, and in a position so favorable in respect to western discovery, had been so abruptly quitted, appeared inadmissible. The "Croker Mountains," which had barred the progress of Sir John Ross, were affirmed by some who had borne part in the abortive voyage to be an ocular illusion. This opinion was very decidedly espoused by Lieut. Parry, the second in command. It was determined, therefore, that a fresh expedition should be equipped and intrusted to him, that he might fulfil, if possible, his own sanguine hopes, and those of the government.

He was furnished with the *Hecla*, of 375 tons, and a crew of fifty-eight men; and with the *Griper* gun-brig, of 180 tons, and thirty-six men, commanded by Lieut. Liddon. These ships were made as strong as possible for the navigation of the Arctic seas; and were stored with ample provisions for two years, a copious supply of anti-scorbutics, and everything which could enable

the crews to endure the most extreme rigors of a polar winter.

Lieut. Parry, destined to outstrip all his predecessors in the career of northern discovery, weighed anchor at the Nore on the 11th May, 1819, and on the 20th rounded the remotest point of the Orkneys. He endeavored to cross the Atlantic about the parallel of  $58^{\circ}$ , and, though impeded during the first fortnight of June by a course of unfavorable weather, obtained, on the 15th, from the distance apparently of not less than forty leagues, a view of the lofty cliffs composing Cape Farewell. On the 18th the ships first fell in with icebergs, the air being also filled with petrels, kittiwakes, terns, and other winged inhabitants of the northern sky. He now made an effort to push north and west, through the icy masses, in the direction of Lancaster Sound; but these suddenly closed upon him; and on the 25th both vessels were so immovably beset, that no power could turn their heads a single point of the compass. They remained thus fixed, but safe, when, on the morning of the second day, a heavy roll of the sea loosened the ice, and drove it against them with such violence, that only their very strong construction saved them from severe injury. The discoverers, therefore, were fain to extricate themselves as soon as possible; and, resigning the idea of reaching Lancaster Sound by the most direct course, resolved to steer northward along the border of this great icy field till they should find open water. In this progress they verified the observation of Davis, that in the narrowest part of the great sea, misnamed his Strait, the shores on each side could be seen at the same moment. Thus they proceeded till they reached the Women's Islands and Hope Sanderson, in about latitude  $73^{\circ}$ . As every step was now likely to carry them further from their destination, Parry deter-

mined upon a desperate push to the westward. Favored with a moderate breeze, the ships were run into the detached pieces and floes of ice, through which they were heaved with hawsers; but, the obstacles becoming always more insuperable, they were at length completely beset, and a heavy fog coming on, made them little able to take advantage of any favorable change. Yet, in the course of a week, though repeatedly and sometimes dangerously surrounded, they warped their way from lane to lane of open water, till only one lengthened floe separated them from an open sea. By laboriously sawing through this obstruction, they finally penetrated the great barrier, and saw the shore, clear of ice, extending before them.

The navigators now bore directly for Lancaster Sound, and on the 30th July found themselves at its entrance. They felt an extraordinary emotion as they recognized this magnificent channel, with the lofty cliffs by which it was guarded, aware that a very short time would decide the fate of their grand undertaking. They were tantalized, however, by a fresh breeze coming directly down the sound, which did not suffer them to make more than a very slow progress. Still, there was no appearance of obstruction either from ice or land, and even the heavy swell which they had to encounter, driving the water repeatedly in at the stern windows, was hailed as an indication of open sea to the westward.

The Hecla left the Griper behind, but still without making any great way herself, till the 3d August, when an easterly breeze sprang up, carrying both vessels rapidly forward. A crowd of sail was set, and they proceeded triumphantly in their course. The minds of all were filled with anxious hope and suspense. The masts were crowded with officers and men, and the successive reports brought down from the highest pinnacle

called the crow's nest, were eagerly listened to on deck. Their path was still unobstructed. They passed various headlands, with several wide openings towards the north and south, to which they hastily gave the names of Croker Bay, Navy Board Inlet, and similar designations; but these it was not their present object to explore. The wind, freshening more and more, carried them happily forward, till at midnight they found themselves in longitude  $83^{\circ} 12'$ , nearly a hundred and fifty miles from the mouth of the sound, which still retained a breadth of fifty miles. The success of the expedition, they fondly hoped, was now, to a great extent, decided.

The Hecla at this time slackened her course, to allow her companion to come up, which she did in longitude  $85^{\circ}$ . They proceeded together to longitude  $86^{\circ} 30'$ , and found two other inlets, which they named Burnet and Stratton; then a bold cape, named Fellfoot, forming apparently, the termination of this long line of coast. The lengthened swell, which still rolled in from the north and west, with the oceanic color of the waters, inspired the flattering persuasion that they had already passed the region of straits and inlets, and were now wafted along the wide expanse of the polar basin. Nothing, in short, it was hoped, would henceforth obstruct their progress to Icy Cape, the western boundary of America. An alarm of land was given, but it proved to arise only from an island of no great extent. However, more land was soon discovered, beyond Cape Fellfoot, which was ascertained to be the entrance to a noble recess, extending on their right, which they named Maxwell Bay. An uninterrupted range of sea still stretched out before them, though they were somewhat discomposed by seeing, on the south, a line of



continuous ice ; but it left an open passage, and they hoped to find it merely a detached stream.

A little space onwards, however, they discovered, with deep dismay, that this ice was joined to a compact and impenetrable body of floes, which completely crossed the channel, and joined the western point of Maxwell Bay. It behoved them, therefore, immediately to draw back, to avoid being embayed in the ice, along the edges of which a violent surf was then beating. The officers began to amuse themselves with fruitless attempts to catch white whales, when the weather cleared, and they saw, to the south, an open sea, with a dark water-sky. Parry, hoping that this might lead to an unencumbered passage in a lower latitude, steered in this direction, and found himself at the mouth of a great inlet, ten leagues broad, with no visible termination ; and to the two capes at its entrance he gave the names of Clarence and Seppings.

The mariners, finding the western shore of this inlet greatly obstructed with ice, moved across to the eastern, where they entered a broad and open channel. The coast was the most dreary and desolate they had ever beheld, even in the Arctic world, presenting scarcely a semblance either of animal or vegetable life. Navigation was rendered more arduous, from the entire irregularity of the compass, now evidently approaching to the magnetic pole, and showing an excess of variation which they vainly attempted to measure, so that the oinnacles were laid aside as useless lumber.

They sailed a hundred and twenty miles up this inlet, and its augmenting width inspired them with corresponding hopes ; when, with extreme consternation, they suddenly perceived the ice to diverge from its parallel course, running close in with a point of land which appeared to form the southern extremity of the eastern

shore. To this foreland they gave the name of *Jap-  
Kater*. The western horizon also appeared covered  
with heavy and extensive floes, a bright and dazzling  
ice-blink extending from right to left. The name of the  
Prince Regent was given to this spacious inlet, which  
Parry strongly suspected must have a communication  
with Hudson's Bay. He now determined to return to  
the old station, and watch the opportunity when the  
relenting ice would allow the ships to proceed west  
ward. That point was reached, not without some diffi-  
culty, amid ice and fog.

At Prince Leopold's Islands, on the 15th, the barrier  
was as impenetrable as ever, with a bright blink; and  
from the top of a high hill there was no water to be  
seen; luckily, also, there was no land. On the 18th,  
on getting once more close to the northern shore, the  
navigators began to make a little way, and some showers  
of rain and snow, accompanied with heavy wind, pro-  
duced such an effect, that on the 21st the whole ice had  
disappeared, and they could scarcely believe it to be  
the same sea which had just before been covered with  
floes upon floes, as far as the eye could reach.

Parry now crowded all sail to the westward, and,  
though detained by want of wind, he passed Radstock  
Bay, Capes Hurd and Hotham, and Beechey Island;  
after which he discovered a fine and broad inlet leading  
to the north, which he called Wellington. The sea at  
the mouth being perfectly open, he would not have  
hesitated to ascend it, had there not been before him,  
along the southern side of an island named Cornwallis,  
an open channel leading due west. Wellington Inlet  
was now considered by the officers, so high were their  
hopes, as forming the western boundary of the land  
stretching from Baffin's Bay to the Polar Sea, into  
which they had little doubt they were entering. For

this reason, Lieutenant Parry did not hesitate to give to the great channel, which was understood to effect so desirable a junction, the merited appellation of Barrow's Strait, after the much-esteemed promoter of the expedition. A favorable breeze now sprang up, and the adventurers passed gayly and triumphantly along the extensive shore of Cornwallis Island, then coasted a larger island, named Bathurst, and next a smaller one, called Byam Martin. At this last place they judged, by some experiments, that they had passed the magnetic meridian, situated, probably, in about  $100^{\circ}$  west longitude, and where the compass would have pointed due south instead of due north.

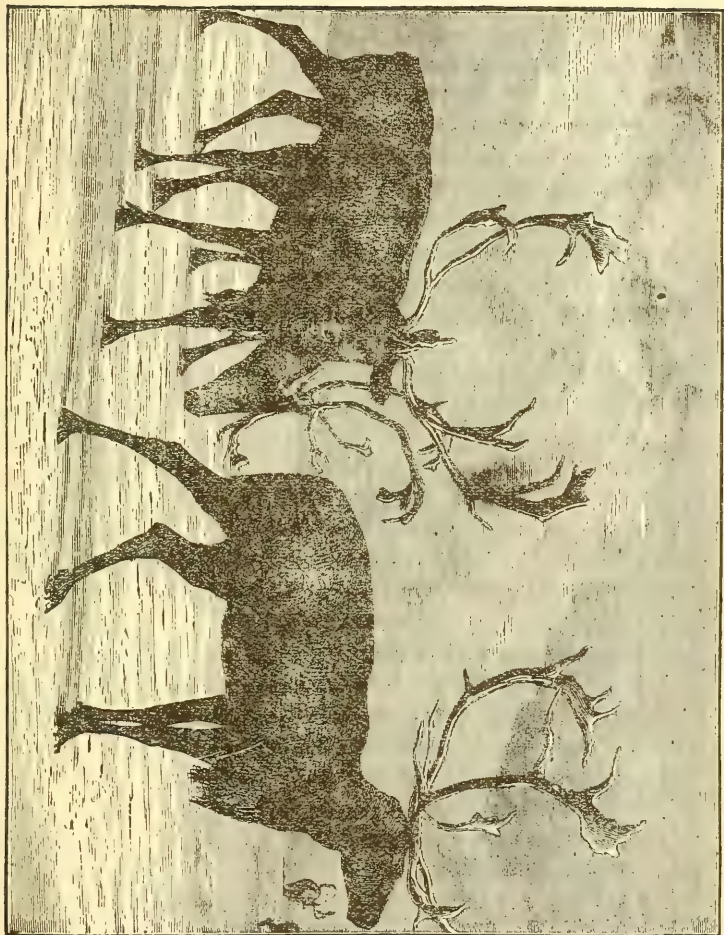
The navigation now became extremely difficult, in consequence of thick fogs, which not only froze on the shrouds, but, as the compass was also useless, took away all means of knowing the direction in which they sailed. They were obliged to trust that the land and ice would preserve the same line, and sometimes employed the oddest expedients for ascertaining the precise point. They encountered, also, a compact floe, through which they were obliged to bore their way by main force.

Notwithstanding all these obstacles, they reached the coast of an island larger than any before discovered, to which they gave the name of Melville. The wind now failed, and they moved slowly forward by towing and warping, till, on the 4th September, the lieutenant could announce to his joyful crew that, having reached the longitude of  $110^{\circ}$  west, they were become entitled to the reward of five thousand pounds promised by Parliament to the first ship's company who should attain that meridian. They still pushed forward with redoubled ardor, but soon found their course arrested by an impenetrable barrier of ice. They waited nearly a fort-

night, in hopes of overcoming it, till, about the 20th, their situation became alarming. The young ice began rapidly to form on the surface of the waters, retarded only by winds and swells, so that the commanding officer was convinced that, in the event of a single hour's calm, he would be frozen up in the midst of the sea.

No option was therefore left but to return, and to choose between two apparently good harbors, which had been recently passed on Melville Island. Not without difficulty he reached this place on the 24th, and decided in favor of the more western haven, as affording the fullest security; but it was necessary to cut his way two miles through a large floe with which it was encumbered. To effect this arduous operation, the seamen marked with boarding-pikes two parallel lines, at the distance of somewhat more than the breadth of the larger ship. They sawed, in the first place, along the path tracked out, and then, by cross-sawings, detached large pieces, which were separated diagonally, in order to be floated out; and sometimes boat-sails were fastened to them, to take the advantage of a favorable breeze. On the 26th the ships were established in five fathoms water, at about a cable's length from the beach. For some time the ice was daily cleared round them; but this was soon found an endless and useless labor, and they were allowed to be regularly frozen in for the winter.

Parry then applied himself to name the varied group of islands along which he had passed. He called them, at first, New Georgia; but, recollecting that this appellation was preoccupied by one in the Pacific, he gave the title of the "North Georgian Islands," in honor of his majesty George III., whose reign had been so eminently distinguished by the extension of nautical and geographical knowledge.







Hunting parties occasionally went out and procured a few reindeer; but a migration of these animals took place before the close of October, leaving behind them only wolves and foxes to keep the party company during the long winter months. Even the polar hare, so common in the Arctic regions, never once showed itself on Melville Island in the course of the winter. The musk-ox, also very common during its proper season, arrived on Melville Island in the middle of May, by crossing the ice from the southward, and quitted it by the same way on its return towards the end of September. On the 15th the last covey of ptarmigan was met with; and on the same day were seen fifteen deer, all lying down, except one large one, probably a stag; this, after the rising of the rest, seemed to guard the animals in their flight, frequently going round the herd, sometimes striking them with his horns to make them go on, which they appeared not much inclined to do. Even seals were not found in this neighborhood; but whales of different kinds were commonly met with; gulls and ducks, however, so numerous in Davis's Strait and the Georgian Islands, condescended not to visit Melville Island, but "two or three specimens of a caterpillar were obtained, one of which was brought to England"—of course as an Arctic curiosity. One large white bear, having pursued Captain Sabine's servant to the ship, was shot at and wounded, but made his escape; it was the only one met with during the stay of the party, but described as being more purely white than any they had before seen. A feeble willow, a saxifrage, lichens, and stunted grasses, constitute pretty nearly the *flora* of Melville Island.

The total privation of game of any kind now afforded few excursions for the exercise and amusement of hunting. Parties, however, had occasionally been sent out

shortly after the taking up of their winter quarters. One of these did not return on board before sunset, as strictly ordered, and the consequence is stated to have been as follows :

“ John Pearson, a marine belonging to the Griper, who was the last that returned on board, had his hands severely frost-bitten, having imprudently gone away without mittens, and with a musket in his hand. A party of our people most providentially found him, although the night was very dark, just as he had fallen down a bank of snow, and was beginning to feel that degree of torpor and drowsiness which, if indulged, inevitably proves fatal. When he was brought on board, his fingers were quite stiff, and bent into the shape of that part of the musket which he had been carrying ; and the frost had so far destroyed the animation in his fingers on one hand that it was necessary to amputate three of them a short time after, notwithstanding all the care and attention paid to him by the medical gentlemen. The effect which exposure to severe frost has in benumbing the mental as well as the corporeal faculties was very striking in this man, as well as in two of the young gentlemen, who returned after dark, and of whom we were anxious to make inquiries respecting Pearson. When I sent for them into my cabin they looked wild, spoke thick and indistinctly, and it was impossible to draw from them a rational answer to any of our questions. After being on board for a short time the mental faculties appeared gradually to return with the returning circulation ; and it was not till then that a looker-on could easily persuade himself that they had not been drinking too freely.”

So early as the 29th of October the thermometer was down to twenty-four degrees below zero. It was now

distressing to touch any metallic substance with the naked hand in the open air; it produced a feeling of intense heat, and took off the skin. If the eye-piece of a telescope touched the face, it occasioned an intense burning pain; the remedy was to cover them and other instruments with soft leather. The officers, notwithstanding, indulged themselves in walking for an hour or two in the middle of the day, in the depth of winter, even when the thermometer was down to forty degrees or even fifty degrees below zero, without experiencing much inconvenience from this intense degree of cold, provided always that there was no wind; but the least breeze made the exposure to it intolerable.

The commander, finding himself and his ships shut in for a long and dreary winter, devoted his attention, with a mixture of firmness and kindness, to mitigate those evils which, even in lower latitudes, had often rendered an abode in the Arctic regions so fatal, and to economize both the fresh provisions and fuel.

From the first, Parry was aware that nothing acted more strongly as an antiscorbutic than to keep the men's minds in a lively and cheerful state. Arrangements were accordingly made for the occasional performance of a play, in circumstances certainly very remote from any to which the drama appeared congenial. Lieutenant Beechey was nominated stage-manager, and the other gentlemen came forward as amateur performers. The very expectation thus raised among the sailors, and the bustle of preparing a room for the purpose, were extremely beneficial; and when the North Georgian Theatre opened with "Miss in her Teens," these hardy tars were convulsed with laughter. The Arctic management was extremely popular. The officers had another source of amusement in the North Georgian Gazette, of which Captain Sabine became

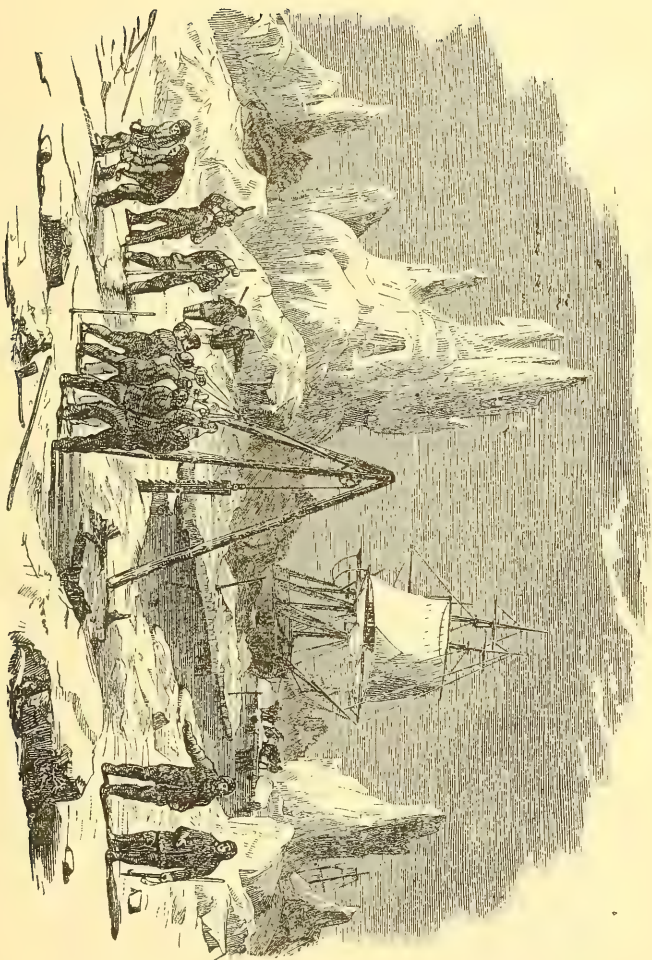
editor, and all were invited to contribute to this chronicle of the frozen regions.

On the 1st and 2d of February the sun was looked for, but the sky was wrapped in mist; however, on the 3d he was perceived from the maintop of the *Hecla*.

Health was maintained on board the ships, by enforced exercise and other means, to a surprising degree. Early in January, however, Mr. Scallon, the gunner, felt symptoms, first in the legs, and then in the gums, that decidedly indicated the presence of scurvy, of which the immediate cause appeared to be the great collection of damp that had formed around his bed-place. At this alarm, all the antiscorbutics on board—lemon-juice, pickles, and spruce-beer—were put into requisition; a small quantity of mustard and cress was also raised from mould placed over the stove-pipe; and such was the success of these remedies, that in nine days the patient could walk without pain.

“Some of our men,” says Parry, “having, in the course of their shooting excursions, been exposed for several hours to the glare of the sun and snow, returned at night much affected with that painful inflammation in the eyes occasioned by the reflection of intense light from the snow, aided by the warmth of the sun, and called in America ‘snow blindness.’ This complaint, of which the sensation exactly resembles that produced by large particles of sand or dust in the eyes, is cured by some tribes of American Indians by holding them over the steam of warm water; but we found a cooling wash, made by a small quantity of acetate of lead mixed with cold water, more efficacious in relieving the irritation, which was always done in three or four days, even in the most severe cases, provided the eyes were carefully guarded from the light. As a preventive of this complaint, a piece of black crape was given to each





SAWING A CHANNEL.



man, to be worn as a kind of short veil attached to the hat, which we found to be very serviceable. A still more convenient mode, adopted by some of the officers, was found equally efficacious ; this consisted in taking the glasses out of a pair of spectacles, and substituting black or green crape, the glass having been found to heat the eyes and increase the irritation."

On the 16th of March the North Georgian Theatre was closed with an appropriate address, and the general attention was now turned to the means of extrication from the ice. By the 17th of May the seamen had so far cut it from around the ships as to allow them to float ; but in the sea it was still immovable.

This interval of painful inaction was employed by Parry in an excursion across Melville Island. The ground was still mostly covered with softened snow. and even the cleared tracts were extremely desolate, though checkered by patches of fine verdure. Deer were seen traversing the plains in considerable numbers. Towards the north appeared another island, to which was given the name of Sabine. It was found that those parts of Melville Island which were clear of snow produced the dwarf willow, sorrel, and poppy, and that the moss was very luxuriant. On the second day they saw a pair of ducks, and killed seven ptarmigan ; sorrel and saxifrage were abundant. The party found pieces of coal imbedded in sandstone ; passed a very extensive, dreary, and uninteresting level plain, covered with snow ; and this kind of ground, with occasional ravines and foggy weather, continued for three days, during which they saw not a living animal, except one or two flocks of geese.

Arrived at Bushman's Cove, in Liddon's Gulf, on the western side of Melville Island, the party found "one of the pleasantest and most habitable spots we had yet

seen in the Arctic regions, the vegetation being more abundant and forward than in any other place, and the situation sheltered and favorable for game." They found here a good deal of moss, grass, dwarf-willow, and saxifrage, and Captain Sabine met with a ranunculus in full flower. Thus we see that even in this, the most desolate region of the earth, the superiority of the western coast predominates. The hunters saw and fired at a musk-ox, but did not kill him; they saw also several golden plovers. On the 15th of June they reached the ships, and were complimented by their shipmates on their good looks, and as appearing in more robust health than when they departed.

"Having observed," says Parry, "that the sorrel was now so far advanced in foliage as to be easily gathered in sufficient quantity for eating, I gave orders that two afternoons in each week should be occupied by all hands in collecting the leaves of this plant; each man being required to bring in, for the present, one ounce, to be served in lieu of lemon-juice, pickles, and dried herbs, which had been hitherto issued. The growth of the sorrel was from this time so quick, and the quantity of it so great on every part of the ground about the harbor, that we shortly after sent the men out every afternoon for an hour or two; in which time, besides the advantage of a healthy walk, they could, without difficulty, pick nearly a pound each of this valuable antiscorbutic, of which they were all extremely fond.

"By the 20th of June, the land in the immediate neighborhood of the ships, and especially in low and sheltered situations, was much covered with the handsome purple flower of the *saxifraga oppositifolia*, which was at this time in great perfection, and gave something like cheerfulness and animation to a scene hitherto indescribably dreary in its appearance.

“The suddenness with which the changes take place during the short season which may be called summer in this climate, must appear very striking when it is remembered that, for a part of the first week in June, we were under the necessity of thawing artificially the snow which we made use of for water during the early part of our journey to the northward ; that, during the second week, the ground was in most parts so wet and swampy that we could with difficulty travel ; and that, had we not returned before the end of the third week, we should probably have been prevented doing so for some time, by the impossibility of crossing the ravines without great danger of being carried away by the torrents,—an accident that happened to our hunting parties on one or two occasions in endeavoring to return with their game to the ships.”

By the middle of June, pools were everywhere formed ; the water flowed in streams, and even in torrents, which rendered hunting and travelling unsafe. There were also channels in which boats could pass ; yet, throughout this month and the following, the great covering of ice in the surrounding sea remained entire, and kept the ships in harbor.

On the 2d of August, however, the whole mass, by one of those sudden movements to which it is liable, broke up, and floated out, and the explorers had now open water in which to prosecute their great object.

On the 15th they were enabled to make a certain advance, after which the frozen surface of the ocean assumed a more compact and impenetrable aspect than had ever before been witnessed. The officers ascended some of the lofty heights which bordered the coast ; but, in a long reach of sea to the westward, no boundary was seen to these icy barriers. There appeared only the western extremity of Melville Island, named Cape

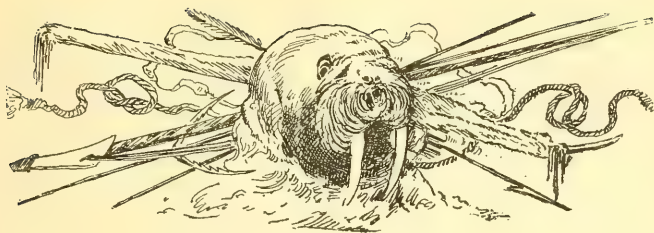


Dundas, and in the distance a bold coast, which they named Banks's Land. As even a brisk gale from the east did not produce the slightest movement on the glassy face of the deep, they were led to believe that on the other side there must be a large body of land, by which it was held in a fixed state. On considering all circumstances, there appeared no alternative but to make their way homeward while yet the season permitted. Some additional observations were made, as they returned, on the two coasts extending along Barrow's Strait.

Parry's arrival in Britain was hailed with the warmest exultation. To have sailed upwards of thirty degrees of longitude beyond the point reached by any former navigator; to have discovered so many new lands, islands, and bays; to have established the much-contested existence of a Polar Sea north of America; finally, after a wintering of eleven months, to have brought back his crew in a sound and vigorous state, were enough to raise his name above that of any other Arctic voyager.



ESQUIMAUX SNOW-HUT.



## CHAPTER V.

FRANKLIN'S FIRST LAND EXPEDITION.—INCIDENTS.—BACK'S JOURNEY.—SEVERITY OF THE WEATHER.—AURORA BOREALIS.—ANECDOTES.—SURVEY OF THE COAST.—RETURN TRIP.—SUFFERINGS.—MURDER OF MR. HOOD.—DEATHS.—UNEXPECTED RELIEF.—ARRIVAL AT YORK FACTORY.

In September of the same year that Parry sailed, an overland expedition started from York Factory, Hudson's Bay, under charge of Sir John Franklin, accompanied by Dr. (now Sir John) Richardson, two midshipmen, —Messrs. Back and Hood,—and Hepburn, a seaman. with the object of exploring the north coast of America to its eastern extremity from the mouth of the Coppermine. There was a chance that Parry might make for the coast in his ships ; and, if so, the two parties would have coöperated with mutual advantage.

On the 19th of January, 1820, Franklin set out in company with Mr. Back, and a seaman named Hepburn, with provisions for fifteen days stowed in two sledges, on their journey to Fort Chipewyan. Dr. Richardson, Mr. Hood, and Mr. Connolly, accompanied them a short distance. After touching at different posts of the company, they reached their destination safely on the 26th of March, after a winter's journey of eight hundred and fifty-seven miles. The greatest difficulty experienced by the travellers was the labor of walking in snow-shoes, a weight of between two and three pounds being constantly attached to galled feet and swelled ankles.

Of the state of the temperature during this journey

there is no record, for a reason explained by Franklin, who says that "this evening (18th of January) we found the mercury of our thermometer had sunk into the bulb, and was frozen."

On the 15th of April the first shower of rain fell; and on the 17th the thermometer rose to  $77^{\circ}$  in the shade. The return of the swans, geese, and ducks, now gave certain indications of spring. The warm weather, by the sudden melting of the snow and ice, deluged the face of the country. Mr. Flood says: "The noise made by the frogs which this inundation produced is almost incredible. There is strong reason to believe that they outlive the severity of winter. They have often been found frozen, and revived by warmth; nor is it possible that the multitude which incessantly filled our ears with their discordant notes could have been matured in two or three days."

Captain Franklin also notices the resuscitation of fishes after being frozen: "It may be worthy of notice here, that the fish froze as they were taken out of the nets, and in a short time became a solid mass of ice, and by a blow or two of the hatchet were easily split open, when the intestines might be removed in one lump. If, in this completely frozen state, they were thawed before the fire, they recovered their animation. This was particularly the case with the carp; and we had occasion to observe it repeatedly, as Dr. Richardson occupied himself in examining the structure of the different species of fish, and was always, in the winter, under the necessity of thawing them before he could cut them. We have seen a carp recover so far as to leap about with much vigor after it had been frozen for thirty-six hours." It may be stated that the same effect is produced on the insect tribe.

Franklin and his party, increased by the addition of



AN ARCTIC MIRAGE.





sixteen Canadian voyageurs, interpreters, &c., left Fort Chipewyan in July, 1820, for Fort Enterprise, on Winter Lake, more than five hundred miles distant. Here, after walking eighty miles to get a look at the Coppermine, they wintered, while Mr. (now Sir George) Back returned on foot to Fort Chipewyan, to expedite the transit of stores required for the next year's operations. At the end of five months he rejoined his companions, after a journey which put his powers of endurance to a severe test.

Some interesting instances of Indian generosity are reported in the report of Back's long and perilous journey. "One of the women caught a fine pike by making a hole in the ice, which she gave to us; the Indians positively refused to partake of it, from the idea (as we afterwards learned) that we should not have sufficient for ourselves. 'We are accustomed to starvation,' said they, 'but you are not.'"

Back, in this dreadful journey, was not only exposed to starvation and the extremity of cold, but also to the danger of perishing in some of the lakes which they had to cross on foot. On a narrow branch of the Slave Lake he fell through the ice, but escaped without injury; on another occasion the ice bent so that it required the utmost speed to avoid falling through where it gave way, as it seems to have done at every step he took. In short, it was little less than miraculous, considering the season and the severity of the winter, that he ever returned safe; which, however, he had the good fortune to do on the 17th of March, when he arrived at Fort Enterprise, where, he says, "I had the pleasure of meeting my friends all in good health, after an absence of nearly five months, during which time I had travelled eleven hundred and four miles on snow-shoes, and had no other covering, at night, in the

woods, than a blanket and deer-skin, with the thermometer frequently at  $-40^{\circ}$ , and once at  $-57^{\circ}$ , and sometimes passing two or three days without tasting food."

Franklin gives the following statement in regard to the severity of the weather in December: "The weather during this month was the coldest we experienced during our residence in America. The thermometer sank on one occasion to  $57^{\circ}$  below zero, and never rose beyond  $6^{\circ}$  above it; the mean for the month was  $-29^{\circ}$ - $7^{\circ}$ . During these intense colds, however, the atmosphere was generally calm, and the wood-cutters and others went about their ordinary occupations without using any extraordinary precautions, yet without feeling any bad effects. The heat is abstracted most rapidly from the body during strong breezes; and most of those who have perished from cold in this country have fallen a sacrifice to their being overtaken on a lake, or other unsheltered place, by a storm of wind. The intense colds were, however, detrimental to us in another way. The trees froze to their very centres, and became as hard as stones, and more difficult to cut. Some of the axes were broken daily, and by the end of the month we had only one left that was fit for felling trees."

The aurora borealis made its appearance frequently, with more or less brilliancy, but was not particularly remarkable; in the month of December it was visible twenty-eight of the long nights.

The Indians, it appears, have nearly destroyed the fur-bearing animals; and so scarce is the beaver become, that in the whole journey to the shores of the Polar Sea and back, one single habitation, and one dam only, of that industrious and ingenious creature, were met with. Among the many interesting anecdotes that have been told of this animal, Dr. Richardson relates the following:

‘One day a gentleman, long resident in this country, espied five young beavers sporting in the water, leaping upon the trunk of a tree, pushing one another off, and playing a thousand interesting tricks. He approached softly, under cover of the bushes, and prepared to fire on the unsuspecting creatures; but a nearer approach discovered to him such a similitude between their gestures and the infantile caresses of his own children, that he threw aside his gun. This gentleman’s feelings are to be envied, but few traders in furs would have acted so feelingly.’”

On the last day of June, 1821, the whole party having dragged their canoes and baggage to the bank of the Coppermine, — a tedious and fatiguing service, — embarked on the rapid stream, and reached the sea on the 18th July. The main object of the expedition then commenced; and, with two birch-bark canoes, each manned by ten men, and fifteen days’ provision, Franklin paddled to the eastward.

Proceeding along the coast on the inside of a crowded range of islands, they encamped on shore after a run of thirty-seven miles, in which they experienced little interruption. The coast was found of moderate height, easy of access, and covered with vegetation; but the islands were rocky and barren, presenting high cliffs, of a columnar structure. In continuing their voyage, the dangers which beset a navigator in these dreadful polar solitudes thickened gloomily around them. The coast became broken and sterile, and at length rose into a high and rugged promontory, against which some large masses of ice had drifted, threatening destruction to their slender canoes.

In attempting to round this cape the wind rose, an awful gloom involved the sky, and the thunder burst over their heads, compelling them to encamp till the

storm subsided. They then, at the imminent risk of having the canoes crushed by the floating ice, doubled the dreary promontory, which they denominated Cape Barrow, and entered Detention Harbor, where they landed. Around them the land consisted of mountains of granite, rising abruptly from the water's edge, destitute of vegetation, and attaining an elevation of fourteen or fifteen hundred feet; seals and small deer were the only animals seen, and the former were so shy that all attempts to approach within shot were unsuccessful.

With the deer the hunters were more fortunate, but these were not numerous; and, while the ice closed gradually around them, and their little stock of provisions every day diminished, it was impossible not to regard their situation with uneasiness. Rounding Cape Kater, they entered Arctic Sound, and sent a party to explore a river upon the banks of which they expected to find an Esquimaux encampment. All, however, was silent, desolate, and deserted; even these hardy natives, bred amidst the polar ices, had removed from so barren a spot, and the hunters returned with two small deer and a brown bear, the latter animal so lean and sickly-looking that the men declined eating it; but the officers boiled its paws, and found them excellent.

Proceeding along the eastern shore of Arctic Sound, to which they gave the name of Banks's Peninsula, the expedition made its painful way along a coast indented by bays, and in many places studded with islands, till, on the 10th of August, they reached the open sea; and sailing, as they imagined, between the continent and a large island, found, to their deep disappointment, that, instead of an open channel, they were in the centre of a vast bay.

The state of the expedition now called for the most serious consideration upon the part of their commander.

So much time had already been spent in exploring the sounds and inlets, that all hope of reaching Repulse Bay was vain; both canoes had sustained material injury; the fuel was expended; their provisions were sufficient only for three days; the appearances of the setting in of the Arctic winter were too unequivocal to be mistaken; the deer, which had hitherto supplied them with fresh meat, would, it was well known, soon disappear; the geese and other aquatic birds were already seen winging their way to the southward; while the men, who had up to this moment displayed the utmost courage, began to look disheartened, and to entertain serious apprehensions for their safety. Under these circumstances, the leaders resolved to return. After spending four days in a careful survey of the bay, they terminated their exploration at a spot which, with literal truth, was named Point Turnagain, a distance, reckoning the indentations of the shore, of five hundred and fifty-five geographical miles. To attempt to reach the Coppermine so late in the season would have been fatal to the whole of the party; they, therefore, made for Hood's River, discovered by them a few days previously, up which they had ascended to the first rapid by the 26th of August. Two small portable canoes were then constructed from the two larger ones, for the purpose of crossing rivers on the journey now before them; and, on the 1st of September, they set off on a straight course for Fort Enterprise, one hundred and fifty miles distant.

The fatigues and privations endured on this route are scarcely to be paralleled; short of food, ill supplied with clothing, and exposed to the howling severity of the climate, the escape of any one of the number appears almost a miracle. Some days, when there was nothing to eat, and no means of making a fire, they passed entirely in bed; on others, after a weary and exhaust-



ing travel, their only nourishment on halting for the night was *tripe de roche*, or rock-tripe, a species of lichen, a plant of most nauseous taste, and the cause of cruel bowel complaints to the whole party. Daily they became weaker, and less capable of exertion ; one of the canoes was so much broken by a fall, that it was burned to cook a supper ; the resource of fishing, too, was denied them, for some of the men, in the recklessness of misery, threw away the nets. Rivers were to be crossed by wading, or in the canoe ; on one of these occasions Franklin took his seat with two of the voyageurs in their frail bark, when they were driven by the force of the stream and the wind to the verge of a frightful rapid, in which the canoe upset, and, but for a rock on which they found footing, they would there have perished. On the 19th, "previous to setting out, the whole party ate the remains of their old shoes, and whatever scraps of leather they had, to strengthen their stomachs for the fatigue of the day's journey. These," adds Franklin, "would have satisfied us in ordinary times, but we were now almost exhausted by slender fare and travel, and our appetites had become ravenous. We looked, however, with humble confidence to the great Author and Giver of all good for a continuance of the support which had hitherto been always supplied to us at our greatest need."

A day or two afterwards the remaining canoe was left behind ; no entreaties could prevail on the men to carry it further. Dr. Richardson, too, was obliged to abandon his collection of plants and minerals, from inability to endure the burthen. The killing of five small deer at this time, however, enabled them to rest for a couple of days to recruit their exhausted strength. On the 26th they came to the Coppermine, the crossing of which, owing to their weak condition. the loss of the canoe

and having to construct a raft of willow branches, detained them until the 4th of October. Dr. Richardson, actuated by the noble desire of making a last effort for the safety of the party, and of relieving his suffering companions from a state of misery, which could only terminate, and that speedily, in death, volunteered to make the attempt to swim across the stream, carrying with him a line by which the raft might be hauled over.

“He launched into the stream,” says Franklin, “with the line round his middle, but when he had got to a short distance from the opposite bank, his arms became benumbed with cold, and he lost the power of moving them; still he persevered, and, turning on his back, had nearly gained the opposite shore, when his legs also became powerless, and, to our infinite alarm, we beheld him sink. We instantly hauled upon the line, and he came again on the surface, and was gradually drawn ashore in an almost lifeless state. Being rolled up in blankets, he was placed before a good fire of willows, and, fortunately, was just able to speak sufficiently to give some slight directions respecting the manner of treating him. He recovered strength gradually, and, through the blessing of God, was enabled, in the course of a few hours, to converse, and by the evening was sufficiently recovered to remove into the tent. We then regretted to learn that the skin of his whole left side was deprived of feeling, in consequence of exposure to too great heat. He did not perfectly recover the sensation of that side until the following summer. I cannot describe what every one felt at beholding the skeleton which the doctor’s debilitated frame exhibited. When he stripped, the Canadians simultaneously exclaimed, ‘*Ah! que nous sommes maigres!*’” They were now almost in the last stage of starvation; and, had it not

been for the exertions of Hepburn in collecting *tripe de roche*, not one of them would have survived.

On the 7th, when at twenty-four miles from Fort Enterprise, a division of the party took place : Franklin, with eight of the men, went on, while Richardson stayed behind at the encampment to tend on Hood, who was scarcely able to move. Hepburn remained with them. Franklin was most unwilling to part with any of his comrades, but saw the necessity of doing so. " And, after," he says, " we had united in thanksgiving and prayers to almighty God, I separated from my companions, deeply afflicted that a train of melancholy circumstances should have demanded of me the severe trial of parting, in such a condition, from friends who had become endeared to me by their constant kindness and coöperation, and a participation of numerous sufferings."

Three of the voyageurs, unable to proceed with Franklin, and Michel, an Iroquois, were permitted to return to the halting-place, where they would be at least certain of fire and rock-tripe ; but, with the exception of the Indian, they perished by the way — not one of them was ever seen again. Franklin, with his five survivors, reached Fort Enterprise on the 11th. What a disappointment awaited them ! Instead of a cordial welcome from friendly hunters, and abundance of provisions, as had been promised, all was a blank ; the building was tenantless.

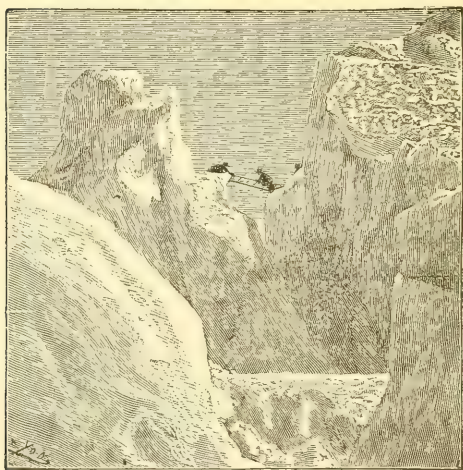
A note was found from Mr. Back, who had journeyed on in advance, stating that he had gone in search of the Indians, and, if need were, to Fort Providence. This was but poor comfort for the famished travellers, who were obliged to take up their quarters in the dilapidated edifice. The rubbish-heaps concealed beneath the snow were searched for old skins, bones, or any kind of offal that might serve as food when stewed with rock-tripe.

A good fire was a luxury seldom enjoyed, for they had scarcely strength to collect wood.

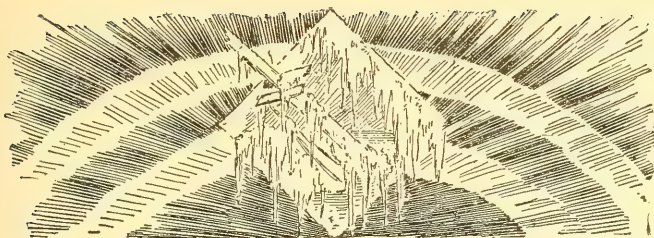
Eighteen weary days were passed in these painful privations, when the monotony was interrupted by the arrival of Dr. Richardson and Hepburn. Their emaciated countenances gave evidence of their debilitated state. "The doctor particularly remarked the sepulchral tones of our voices, which he requested of us to make more cheerful, if possible, unconscious that his own partook of the same key." A partridge which Hepburn had shot was held to the fire, and then divided into six portions. "I and my three companions," says Franklin, "ravenously devoured our shares, as it was the first morsel of flesh any of us had tasted for *thirty-one days*, unless, indeed, the small, gristly particles which we found occasionally adhering to the pounded bones may be called flesh." Richardson brought the melancholy intelligence that Mr. Hood and the Iroquois were both dead. Michel, in a fit of sullen spite, to which uncivilized natures are liable, had shot the young and talented officer at the encampment where they had last parted; and his demeanor towards the two survivors becoming more and more threatening, the doctor, under the imperious instinct of self-preservation, took upon himself the responsibility of putting the Indian to death by a pistol-shot. As afterwards appeared, there was reason to believe that two of the missing voyageurs had also been murdered by the Iroquois.

Two others of the wretched party died on the second day after Richardson's arrival at the fort. At last, on the 7th of November, relief came, borne by three Indians sent by Mr. Back. The messengers proved themselves most kind, assiduous attendants, "evincing humanity that would have done honor to the most civilized people." And, with good fires and sufficient food,

the sufferers began to recover strength. A week later, they were able to set out for Fort Chipewyan, where they remained until June of the following year. In July they reached York Factory, from whence they had started three years before; and thus terminated a journey of five thousand five hundred and fifty miles, during which human courage and patience were exposed to trials such as few can bear with fortitude, unless, as is seen in Franklin's interesting narrative, it arises out of reliance on the ever-sustaining care of an Almighty Providence.







## CHAPTER VI.

PARRY'S SECOND VOYAGE. — ARRIVAL AT HUDSON'S STRAIT. — REPULSE BAY. — BAFFLING NAVIGATION. — ESQUIMAUX FRIENDS. — ARCTIC CLIMATE. — FROZEN UP. — AMUSEMENTS. — ILIGLIUK. — LYON'S JOURNEY. — SNOW HUTS. — LAND EXCURSIONS. — HARBOR AT IGLOOIK. — ANOTHER WINTER. — PARHELIA. — RETURN HOME. — PARRY'S THIRD VOYAGE.

THE possibility of entering the Polar Sea having been proved by Parry's first voyage, it was considered that the north-west passage might probably be effected in a lower latitude than that of Melville Island, where the icy barrier had proved impassable. Parry accordingly was sent out a second time with the *Hecla* and *Fury*, in May, 1821, with instructions to make for Repulse Bay by way of Hudson's Strait. The former never having been fully examined, it was supposed that some opening would be found leading from it to the ocean beyond.

Parry, now promoted to the rank of captain, hoisted his flag on board the *Fury*, while Captain Lyon, already distinguished by his services in Africa, received the command of the *Hecla*. The equipment, the victualling, and the heating of the vessels, were all accomplished with the greatest care, and with various improvements suggested by experience.

The adventurers quitted the Nore on the 8th of May, 1821, passed through the Pentland Frith and by Cape Farewell, and on the 2d of July were at the mouth of Hudson's Strait. Parry, accustomed as he was to

views of polar desolation, was struck with the exceedingly dreary aspect which these shores presented. The naked rocks, the snow still covering the valleys, and the thick fogs that hung over them, rendered the scene indescribably gloomy. The ships were soon surrounded by icebergs, amounting to the number of fifty-four, one of which rose at least two hundred and fifty-eight feet above the sea. They were attended by large floes, and rendered very formidable by their rotatory motion.

In spite of every obstruction, Parry, early in August, reached the entrance of Fox's Channel, and came in view of Southampton Island. It was now the question whether to sail directly up this inlet, and reach, by a comparatively short route, Repulse Bay and the higher latitudes, or to make the south-western circuit of Southampton Island, and ascend the beaten track of the Welcome. Parry judiciously preferred the former, notwithstanding its uncertainties, on account of the great time which would be saved should the course be found practicable. On the 15th he came to an opening stretching westward, and apparently separating the island from other land on the north. Hoping to find this the Frozen Strait of Middleton, he entered it; but it soon proved a spacious and beautiful basin, enclosed by land on every side. He named it the Duke of York's Bay, and considered it one of the finest harbors in the world; but, after admiring a large floe covered entirely with minerals, shells, and plants, he moved out of it, and pursued the voyage.

On the 21st the navigators found themselves in another strait, not much encumbered with ice, but darkened by thick fogs; and before they knew distinctly where they were, a heavy swell from the southward showed that they had already passed through the Frozen Strait, and were in the broad channel of the

**Welcome** They speedily entered Repulse Bay, in which modern speculation had cherished the hope of a passage; but a short investigation made by boats in every direction proved that it was really, as Middleton had described it, completely enclosed. A good deal of time had thus been lost through the scepticism so unjustly attached to the narrative of that eminent seaman.

The appearance of the shores of Repulse Bay was far from uninviting. "The surrounding land rose from six or seven hundred to a thousand feet, and there was no want of vegetation usually found in this part of the Arctic regions, and in many parts it was extremely luxuriant." Reindeer and hares were plentiful; so were ducks, dovebies, and snow-buntings. Several black whales also were observed in the bay. In one spot the remains of no less than sixty Esquimaux habitations were found, consisting of stones laid one over the other, in very regular circles, eight or nine feet in diameter; besides about a hundred artificial structures, fireplaces, store-houses, and other walled enclosures four or five feet high, used for keeping their skin canoes from being gnawed by the dogs. In various parts of the shore were found numbers of circles of stones, which were supposed to have been burying-places, a human skull being found near one of them.

Leaving Repulse Bay, Parry began the career of discovery along a coast hitherto unknown. An inlet was soon observed, and called by the name of Gore; but was not found to extend far into the interior. At the mouth of this opening, the valleys were richly clad with grass and moss, the birds singing, butterflies and other insects displaying the most gaudy tints, so that the sailors might have fancied themselves in some happier climate, had not the mighty piles of ice in the Frozen Strait told a different tale.

Having passed Gore Inlet, the discoverers found themselves among those numerous isles described by Middleton, which formed a complete labyrinth of various shapes and sizes, while strong currents setting between them in various directions, amid fogs and drifting ice, rendered the navigation truly perilous. However, one channel was observed, by which the mariners at last made their way through this perilous maze. No sooner had they reached the open sea, than, being obliged to run before a strong northerly breeze, they were much disheartened to find themselves, on the 3d of September, at the very point which they had left on the 6th of August. All the interval had been employed in the merely negative discovery, that there was nothing to discover.

The commander soon reached the northern coast, and resumed his task, which was rendered very tedious by the necessity of examining every opening and channel, in the hope that each might prove the desired passage into the Polar Ocean. He first explored a large inlet, the name of which he gave to Captain Lyon; then a smaller one, which was named from Lieutenant Hopper; and by connecting these with Gore Inlet, he completed his delineation of the coast.

The seamen had the pleasure of opening a traffic with a party of Esquimaux, whose first timidity was soon overcome by the hope of being supplied with some iron tools. In the course of this transaction, the surprise of the crew was roused by the conduct of a lady, who had sold one boot, but obstinately retained the other, in disregard of the strongest remonstrances as to the ridiculous figure she in consequence made. At length suspicion rose to such a pitch, that, all courtesy being set aside, her person was seized, and the buskin pulled off. Then, indeed, it proved a complete depository of

stolen treasure, there being no less than two spoons and a pewter plate secreted within its capacious cavity.

The end of September now approached, and Parry found himself suddenly in the depth of winter. An alarming symptom appeared in the rapid formation of the soft or pancake ice on the surface of the deep. The obstacle thereby occasioned was at first so slight as to be scarcely felt by a ship before a brisk gale; but it continually increased, till at length the vessel, rolling from side to side, became like Gulliver bound by the feeble hands of Lilliputians. At the same time the various pieces of drift-ice, which were tossing in the sea without, had been cemented into one great field called "the ice," that threatened every moment to bear down upon the brigs and dash them in pieces. Under these circumstances, the navigators could no longer even attempt to reach the land, but determined to saw into the heart of an adjoining floe, and there take up their winter quarters. There was about half a mile to penetrate, which, in the soft state of the pancake ice, was not very laborious. It was, however, far from pleasant, as it bended like leather beneath their feet, and caused them sometimes to sink into the water, whence it was impossible they could escape without a very cold bath.

An observation of Parry shows that the Arctic climate, equally with our own, is influenced by a change of the wind. Thus, on the 20th of October, when the wind was N. N. W., the thermometer fell to  $-10^{\circ}$ ; but, veering to the S. E. on the 24th and 25th, it rose to  $+23^{\circ}$ . "I may possibly," he says, "incur the charge of affectation in stating that this temperature was much too high to be agreeable to us; but it is, nevertheless, the fact, that everybody felt and complained of the change. This is explained by their clothing, bedding,



fires, and other precautions against the severity of the climate, having been once adapted to a low degree of cold, an increase of temperature renders them oppressive and inconvenient." Another circumstance is mentioned, which may serve to confirm a conjecture which has long been maintained by some, that an open sea, free of ice, exists at or near the pole. "On the 2d of November," says Parry, "the wind, freshened up to a gale from N. by W., lowered the thermometer before midnight to  $-5^{\circ}$ , whereas a rise of wind at Melville Island was generally accompanied by a simultaneous rise in the thermometer at low temperatures. May not this," he asks, "be occasioned by the wind blowing over an open sea in the quarter from which the wind blows, and tend to confirm the opinion that at or near the pole an open sea, free of ice, exists?"

Parry was now frozen up for another winter in the midst of the Northern Sea, and he forthwith applied himself to make the necessary arrangements, with that judicious foresight which had been already so conspicuous in the same trying circumstances. As the result of experience, not less than of several ingenious contrivances, the ships were much more thoroughly heated than in the former voyage; the provisioning, too, was more ample, and antidotes against scurvy still more copiously supplied. The Polar Theatre opened, on the 9th of February, with "The Rivals." The two captains appeared as Sir Anthony and Captain Absolute; while those who personated the ladies had very generously removed an ample growth of beard, disregarding the comfortable warmth which it afforded in an Arctic climate. The company were well received, and went through their performances with unabated spirit. But the discomfort of a stage, the exhibitions of which were

attended with a cold thirty degrees under the freezing point, became rather severe.

The sailors found for themselves a more sober and useful, as well as efficacious remedy against *ennui*. They established a school, in which the better instructed undertook to revive the knowledge of letters among those who had almost entirely lost the slight tincture that they had once imbibed. These hardy tars applied themselves to their book with ardent and laudable zeal, and showed a pride in their new attainments like that of little boys in their first class. At Christmas, sixteen well-written copies were produced by those who, two months before, could scarcely form a letter. Amid these varied and pleasing occupations, the shortest day passed over their heads almost unobserved, especially as the sun did not entirely leave them. Captain Lyon never saw a merrier festival than was celebrated on board.

The first day of the new year is described as being a very severe one in the open air, the thermometer down to  $-22^{\circ}$ , and the wind blowing strong from the N. W., on which it may be observed, that the effect of a strong breeze on the feelings, even in temperate climates, is well known, but at low temperatures it becomes painful, and almost insupportable. "Thus," says Parry, "with the thermometer at  $-55^{\circ}$ , and no wind stirring, the hands may remain uncovered for ten minutes or a quarter of an hour without inconvenience; while, with a fresh breeze, and the thermometer nearly as high as zero, few people can keep their hands exposed so long without considerable pain."

The monotony of the scene was now greatly relieved by a friendly visit from the natives, and an invitation was given to the Esquimaux to repair to the ships, when fifty accepted it with alacrity. Partly walking

and partly skipping, they speedily reached the vessels, where a striking congeniality of spirit was soon found to exist between them and the sailors; boisterous fun forming to each the chief source of enjoyment. A fiddle and drum being produced, the natives struck up a dance, or rather a succession of vehement leaps, accompanied with loud shouts and yells. Seeing the Kabloonas, or Whites, as they called our countrymen, engaged in the game of leap-frog, they attempted to join; but not duly understanding how to measure their movements, they made such over-leaps as sometimes to pitch on the crown of their heads; however, they sprang up quite unconcerned. Their attention was specially attracted to the effects of a winch, by which one sailor drew towards him a party of ten or twelve of their number, though grinning and straining every nerve in resistance; but, finding all in vain, they joined in the burst of good-humored laughter till tears streamed from their eyes.

One intelligent old man followed Captain Lyon to the cabin, and viewed, with rational surprise, various objects which were presented. The performance of a hand-organ and a musical snuff-box struck him with breathless admiration; and, on seeing drawings of the Esquimaux in Hudson's Strait, he soon understood them, and pointed out the difference between their dress and appearance and that of his own tribe. On viewing the sketch of a bear, he raised a loud cry, drew up his sleeves, and showed the scars of three deep wounds recived in encounters with that terrible animal.

As spring advanced, the attention of the officers was almost wholly engrossed by the prospects of discovery during the approaching summer. The Esquimaux, by no means destitute of intelligence, and accustomed to shift continually from place to place, were found to

have acquired a very extensive knowledge of the seas and coasts of this part of America. One female, in particular, named Iligliuk, who bore even among her countrymen the character of "a wise woman," was, after a little instruction, enabled to convey to the strangers the outlines of her geographical knowledge in the form of a rude map. A pencil being put into her hand, she traced the shore from Repulse Bay with such a degree of accuracy as inspired great confidence in what she might further delineate. She then began to exhibit a coast reaching far to the north, being, in fact, the eastern limits of Melville Peninsula. Next her pencil took a western direction, when her further progress was watched with the deepest interest; in the course of which she represented a strait between two opposite lands, that extended westward till it opened on each side, and spread into an ocean apparently unbounded. This sketch, which promised to fulfil their most sanguine hopes, gratified the officers beyond measure, and they loaded Iligliuk with attentions.

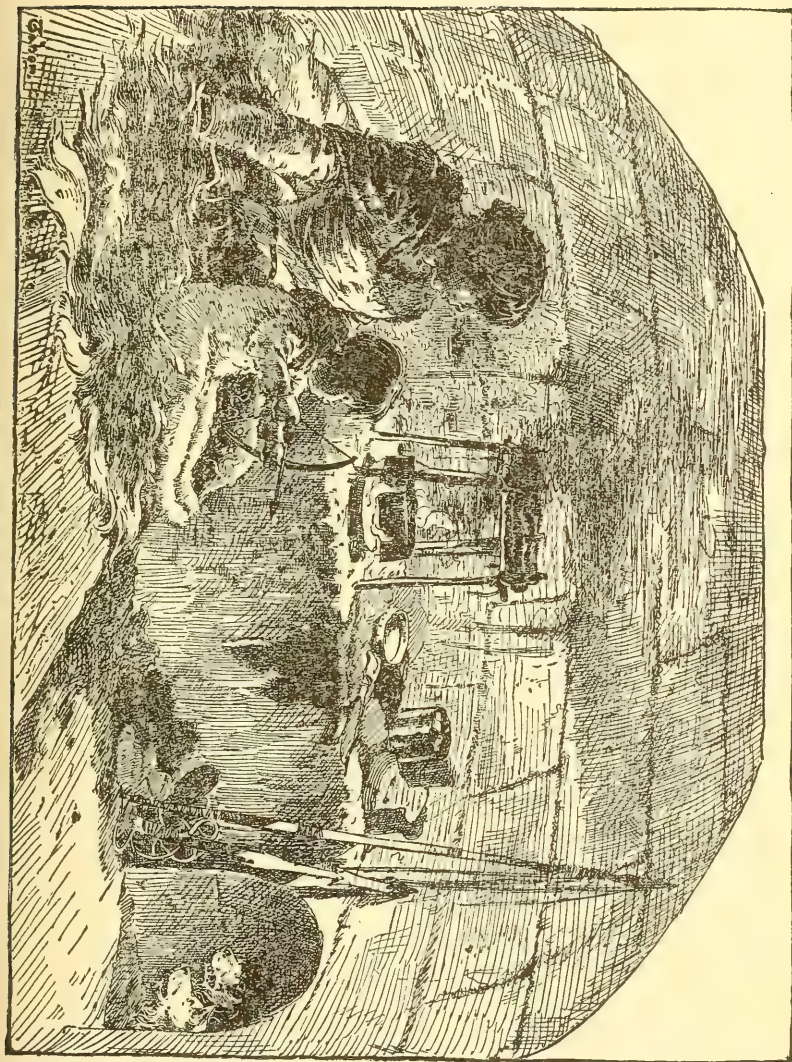
Parry gives an interesting account of the sudden appearance of an Esquimaux snow village near the ships. "If the first view," he says, "of the exterior of this little village was such as to create astonishment, that feeling was in no small degree heightened on accepting the invitation soon given us to enter these extraordinary houses, in the construction of which we observed that not a single material was used but snow and ice. After creeping through two low passages, having each its arched doorway, we came to a small circular apartment, of which the roof was a perfect arched dome. From this three doorways, also arched, and of larger dimensions than the outer ones, led into as many inhabited apartments, one on each side, and the other facing us as we entered. The interior of these

presented a scene no less novel than interesting. The women were seated on the beds at the sides of the huts, each having her little fireplace, or lamp, with all her domestic utensils about her; the children crept behind their mothers, and the dogs, except the female ones, which were indulged with a part of the beds, slunk out past us in dismay. The construction of this inhabited part of the huts was similar to that of the outer apartment, being a dome formed by separate blocks of snow, laid with great regularity and no small art, each being cut into the shape requisite to form a substantial arch, from seven to eight feet high in the centre, and having no support whatever but what this principle of building supplied."

These Esquimaux display much skill in fitting and sewing their dresses, and in the manufacture of canoes, weapons, and domestic implements. They eat little else than animal food, and, whenever they can get it, will devour from ten to twelve pounds of flesh or blubber in a day. Their only domestic animal is the dog; deprived of this useful creature, their existence would be extremely precarious. On the long journeys which they take in search of food, six of these dogs will draw a sledge with a load of half a ton from seven to eight miles an hour during a whole day.

Captain Lyon, in the middle of March, undertook a journey across a piece of land lying between the station of the ships and the continent, which had been named Winter Island. The party were scarcely gone, when they encountered a heavy gale, bringing with it clouds of drift, and a cold so intense that they could not stop for a moment without having their faces covered with frost-bites; and their escape with their lives during the night and following day was nearly miraculous. Their sledge was lost in the snow. Some began to sink into







that dreadful insensibility which is the prelude to death by cold, and to reel about like drunken men. In fact, they had resigned almost every hope of escape, when, providentially, there appeared a newly-beaten track, which they determined to follow, and in ten minutes it led them to the ships. Their arrival there caused indescribable joy, as they had been nearly given up for lost; while no one could be sent in search of them without imminent risk of sharing their fate.

After various incidents, and unsuccessful attempts to free the vessels from the ice, they at length, on the 2d July, resumed their voyage of discovery. They had a favorable run through the entrance, which formed a continuation of Fox's Channel; but a strong current from the north was still bringing down the ice with great force. The *Hecla* underwent some severe pressures, and, within five or six hundred yards of the *Fury*, two large floes dashed against each other with such a tremendous concussion, that numberless huge masses were thrown fifty or sixty feet into the air. The vessel, had she come for a second within the sphere of these movements, must have been crushed to pieces — happily she escaped. This current, however, was highly promising, since it could not be traced to the mouth of Hudson's Strait, and must therefore, they concluded, have come from the Western Ocean, which they were so anxious to reach.

The ice passed by, and the ships proceeded with a favoring wind and tide. The shores began now to put on their summer aspect; the snow had nearly disappeared, and the ground was covered with the richest bloom of Arctic vegetation. The navigators came to a fine river named Barrow, which formed a most picturesque fall down rocks richly fringed with very brilliant plants. Here the reindeer sporting, the eider

duck, the golden plover, and the snow bunting spreading their wings, produced a gay and delightful scene. On the 14th they reached the island of Amitioke, which had been described as situated near the strait they were then endeavoring to attain.

The discoverers now proceeded northwards, and saw before them a bold and high range of coast, apparently separated from that along which they were sailing. This feature, agreeing with the indications of Iligliuk, flattered them that they were approaching the strait exhibited by her as forming the entrance into the Polar Basin. They pushed on, full of hope and animation, and were further cheered by reaching the small island of Igloodik, which she had described as situated at the very commencement of the passage. Accordingly, they soon saw the strait stretching westward before them in long perspective; but, alas! they discovered at the same moment an unbroken sheet of ice from shore to shore, crossing and blocking up the passage; and this not a loose accidental floe, but the field of the preceding winter, on which the midsummer sun had not produced the slightest change. Unable to advance, they amused themselves with land excursions in different directions; and Parry at length determined, on the 14th August, with a party of six, to undertake an expedition along the frozen surface of the strait.

The journey was very laborious, the ice being sometimes thrown up in rugged hummocks, and occasionally leaving large spaces of open water, which it was necessary to cross on a plank, or on pieces of ice, instead of boats. In four days they came in view of a peninsula terminated by a bold cape, the approach to which was guarded by successive ranges of strata, resembling the tiers or galleries of a commanding fortification. The party, however, scrambled to the summit, whence they

enjoyed a most gratifying spectacle. They were at the narrowest part of the strait, here about two miles across, with a tide or current running through it at the rate of two miles an hour. Westward, the shores on each side receded, till, for three points of the compass, and amid a clear horizon, no land was visible. Parry doubted not that from this position he beheld the Polar Sea, into which, notwithstanding the formidable barriers of ice which intervened, he cherished the most sanguine hopes of forcing his way. He named this the Strait of the Fury and Hecla.

He now lost no time in returning to the ships, where his arrival was very seasonable ; for the opposing barrier, which had been gradually softening and breaking into various rents and fissures, at once almost entirely disappeared, and the vessels next morning were in open water. On the 21st they got under weigh, and, though retarded by fogs and other obstructions, had arrived on the 26th at that central and narrowest channel which the commander had formerly reached. A brisk breeze now sprang up, the sky cleared, they dashed across a current of three or four knots an hour, and sanguinely hoped for an entire success, which would compensate so many delays and disappointments.

Suddenly, it was announced from the crow's nest that ice, in a continuous field, unmoved from its winter station, occupied the whole breadth of the channel. In an hour they reached this barrier, which they found soft, porous, and what is termed rotten. Spreading all their canvas, they bore down upon it, and actually forced their way through a space of three or four hundred yards ; but there they stuck, and found their progress arrested by an impenetrable mass. From this point, during the whole season, the ships were unable to



advance a single yard ; nor had the crews any means of exerting their activity except in land journeys.

Captain Lyon undertook an expedition southward, to ascertain if any inlet or passage from sea to sea in this direction had escaped notice. The country, however, was so filled with rugged and rocky hills, some a thousand feet high, and with chains of lakes in which much ice was floating, that he could not proceed above seven miles. Though it was the beginning of September, the season was only that of early spring ; and the buds of the poppy and saxifrage were just unfolding, to be prematurely nipped by the fast-approaching winter.

More satisfactory information was derived from another excursion made by Messrs. Reid and Bushman, who penetrated sixty miles westward along the southern coast of Cockburn Island, till they reached a pinnacle, whence they saw, beyond all doubt, the Polar Ocean spreading its vast expanse before them ; but tremendous barriers of ice filled the strait, and precluded all approach towards that great and desired object.

It was now the middle of September, and the usual symptoms of deer trooping in herds southward, floating pieces of ice consolidated into masses, and the thin pancake crust forming on the surface of the waters, reminded the mariners not only that they could hope for no further removal of the obstacles which arrested their progress, but that they must lose no time in providing winter quarters. The middle of the strait, at the spot where they had been first stopped, occurred as the station whence they would be most likely to push future discovery ; but prudence suggested a doubt, whether the ships, enclosed in this icy prison, with such strong barriers on each side, might ever be able to effect their extrication. The chance of being shut up here for eleven months, amid the privations of an Arctic

winter, appeared, at all events, a serious consideration. By returning to Igloodik, they would be ready to catch the earliest opening, which was expected to take place on the eastern side, from whence a few days would bring them back to their present station.

On the 30th of October, by the usual operation of sawing, the ships were established in a harbor at Igloodik. The ensuing season was passed with the most careful attention to the health and comfort of the crews; but, though their spirits did not sink there appears to have been, on the whole, less of gayety and lightness of heart than in the two former years. We hear nothing of the drama, or even of the school. In this position, north of Winter Island, they were deprived for about seven weeks of the sun's cheering beams. On the 2d of December refraction still showed, from the deck of the *Fury*, about the sixteenth part of his disk. At the New Year, *Arcturus* and *Capella*, stars of the first magnitude, were visible half an hour before and after mid-day. On the 5th of January, 1823; the horizon was so brightly suffused with red, that they hoped ere long to see the sun's orb burst forth; but a fortnight of thick fog occasioned a disappointment. On the 19th, the sky having cleared, they saw him rise, attended by two parhelia



PARHELIA.

and both crews turned out to enjoy the novelty and splendor of this cheering spectacle. One of these par-

helia was very bright and prismatic, being thrown upon a thick cloud ; the other scarcely perceptible, having a blue sky as its back-ground. To each of these mock suns bright yellow bands of light were attached, as shown in the diagram.

The sailors found at Igloolik a colony of Esquimaux, who received them at first with surprise and some degree of alarm ; but, on learning they were from Winter Island, and intimate with its tenants of last season, they welcomed them as familiar acquaintances. The crews spent the winter with them on a friendly footing, and rendered important services to many individuals during a period of severe sickness.

The spring proved unfavorable. Captain Lyon attempted to penetrate across Melville Peninsula, but found the road so barred by steep chains of mountains, that he was obliged to return in nineteen days, without any discovery, except of two rapid rivers falling into the sea near Igloolik. Lieut. Hoppner accompanied a party of Esquimaux to Cockburn Island, but could not make his way to any distance inland. It was the 7th of August before they were able, by severe sawing, to reach the open sea ; by which time Parry had renounced the hope of effecting anything important during the short remnant of this season. He formed, however, a very bold plan, which was to bring all the stores of the other vessel on board the *Fury*, and with it alone to brave a third winter in the polar regions, hoping that the succeeding summer might be more propitious. But, as he was preparing to carry this too daring project into effect, a report was made that symptoms of scurvy had broken out on several of the crew, whose physical strength appeared to be generally impaired by the two hard winters through which they had passed. This left no choice ; and, in compliance with the general opinion

of his officers, he forthwith began his voyage homewards.

The ships were drifted about in a stormy sea, covered with ice, for twenty-four days ; but, being at last favored with a westerly breeze, they crossed the Atlantic, and on the 10th of October, 1823, arrived in Brassa Sound, Shetland.

Two attempts had thus been made, each to a certain point successful, but both arrested much short of the completion of the grand enterprise. The government at home, however, were not willing to stop short in their spirited career. The western extremity of Melville Island, and the Strait of the Fury and Hecla, appeared to be both so blocked up as to afford little hope ; but Prince Regent's Inlet seemed more likely to lead to a prosperous issue. A passage through this channel would bring the ships to the great sea bounding the northern coast of America, that had been seen from the strait mentioned above, and by which there was the fairest prospect of reaching, by the most direct route, the waters of the great Pacific. To follow up these views, Parry was again fitted out in the Hecla ; while, in the accidental absence of Captain Lyon, the Fury was intrusted to Lieutenant, now Captain, Hoppner, who had taken an active part in the operations of the preceding voyage.

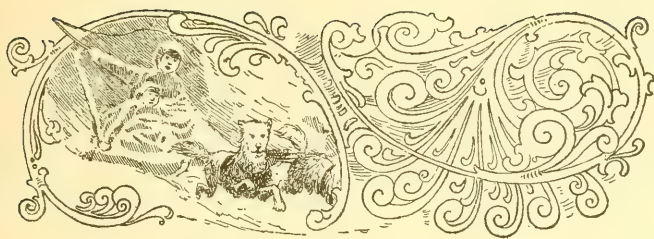
The expedition set sail from Northfleet on the 19th of May, 1824, and was in Davis's Strait by the middle of June. As the season, however, chanced to be peculiarly rigorous, it was not till the 10th of September that, after repeated repulses and severe straining, they caught a view of the bold and magnificent shores of Lancaster Sound, in which a few solitary icebergs were floating. After this they thought themselves fortunate when, by pushing their way through many miles of

newly-formed ice, they reached Port Bowen, in time to make it their winter quarters.

Here they remained until the 20th of July, 1825, when the voyage was resumed, but under very discouraging circumstances. Great accumulations of ice rendered it almost impossible to advance; the *Fury* was driven on shore, and abandoned, though most of her stores were saved and piled on the beach; and the *Hecla* returned to England with a double complement of men and officers. This was the least successful of Parry's voyages, but there is a fact connected with it which deserves to be recorded: it proved that the anxiety and difficulty consequent on the loss of power in the compasses need no longer exist. The placing of a small circular plate of iron in the line of no direction of the ship, and near to the needle, effects a compensation which keeps the latter in working condition. This contrivance is due to Mr. Peter Barlow, of Woolwich, and Parry says, "Never had an invention a more complete and satisfactory triumph; for to the last moment of our operations at sea did the compass indicate the true magnetic direction."







## CHAPTER VII.

LYON'S VOYAGE.—BEECHEY'S EXPEDITION.—FRANKLIN'S SECOND LAND EXPEDITION.—FORT FRANKLIN.—WINTER AT GREAT BEAR LAKE.—EMBARKATION.—SEPARATION OF THE PARTY.—PROGRESS OF FRANKLIN'S DIVISION.—ATTACK BY ESQUIMAUX.—RETURN TO FORT FRANKLIN.—RICHARDSON'S DIVISION.—SECOND WINTER AT THE FORT.

CONCURRENTLY with Parry's third voyage, three other expeditions were undertaken, with the two-fold object of making the north-west passage and of completing the survey of the North American coast. The first, by Captain Lyon, in the *Griper*, was to proceed by Hudson's Strait and Sir Thomas Rowe's Welcome to Repulse Bay; then to cross over Melville Isthmus, and survey the coast of America as far as where Franklin left off, at Point Turnagain. The vessel sailed in June, 1824, but, being totally unfit for the service, except in the quality of strength, she was nearly wrecked on two occasions in the Welcome, and all on board placed in imminent peril of their lives; and at last, Repulse Bay being eighty miles distant, the enterprise was abandoned.

The second expedition, in the *Blossom*, under the command of Captain Beechey, was despatched in 1825, to sail round Cape Horn, and enter the Polar Sea by Behring's Strait, so as to arrive at Chamisso Island, in Kotzebue Sound, by the 10th of July, 1826, there to wait for the third expedition. under Franklin, of which more presently.

On the 2d of June, having left the Sandwich Islands, he shaped his course for Kamtschatka, and on the 27th was becalmed within six miles of Petropalauski. The best guides to this harbor are a range of high mountains, on one of which, upwards of eleven thousand feet in height, a volcano is in constant action. It was a serene and beautiful evening when they approached this remote quarter of the world, and all were struck with the magnificence of the mountains capped with perennial snow, and rising in solemn grandeur one above the other. At intervals the volcano emitted dark columns of smoke; and, from a sprinkling of black spots upon the snow to the leeward, it was conjectured there had been a recent eruption.

From Petropalauski, Beechey sailed, on the 1st of July, for Kotzebue's Sound. "We approached," says he, "the strait which separates the two great continents of Asia and America, on one of those beautiful still nights well known to all who have visited the Arctic regions, when the sky is without a cloud, and when the midnight sun, scarcely his own diameter below the horizon, tinges with a bright hue all the northern circle. Our ship, propelled by an increasing breeze, glided rapidly along a smooth sea, startling from her path flocks of aquatic birds, whose flight, in the deep silence of the scene, could be traced by the ear to a great distance." Having closed in with the American shore some miles northward of Cape Prince of Wales, they were visited by a little Esquimaux squadron belonging to a village situated on a low sandy island.

The natives readily sold everything they possessed, and were cheerful and good-humored, though exceedingly noisy and energetic. Their bows were more slender than those of the islanders to the southward, but made on the same principle, with drift-pine, assisted

with thongs of hide, or pieces of whalebone placed at the back, and neatly bound with small cord. The points of their arrows were of bone, flint, or iron, and their spears headed with the same materials. Their dress was similar to that of the other tribes on the coast. It consisted of a shirt, which reached half-way down the thigh, with long sleeves, and a hood of reindeer-skin, and edged with gray or white fox fur. Besides this they had a jacket of eider-drake skins sewed together, which, when engaged in war, they wore below their other dress, reckoning it a tolerably efficient protection against an arrow or a spear-thrust. In wet weather they threw over the fur dress a shirt made of the entrails of the whale, which, being well saturated with oil and grease, was water-tight; and they also used breeches of deer's hide, and seal-skin boots, to the upper end of which were fixed strings of sea-horse hide. It was their fashion to tie one of these strings round the waist, and attach to it a long tuft of hair, the wing of a bird, or, sometimes, a fox's tail, which, dangling behind as they walked, gave them a ridiculous appearance, and may probably have occasioned the report of the Tschuktschi recorded in Muller, that the people of this country have tails like dogs.

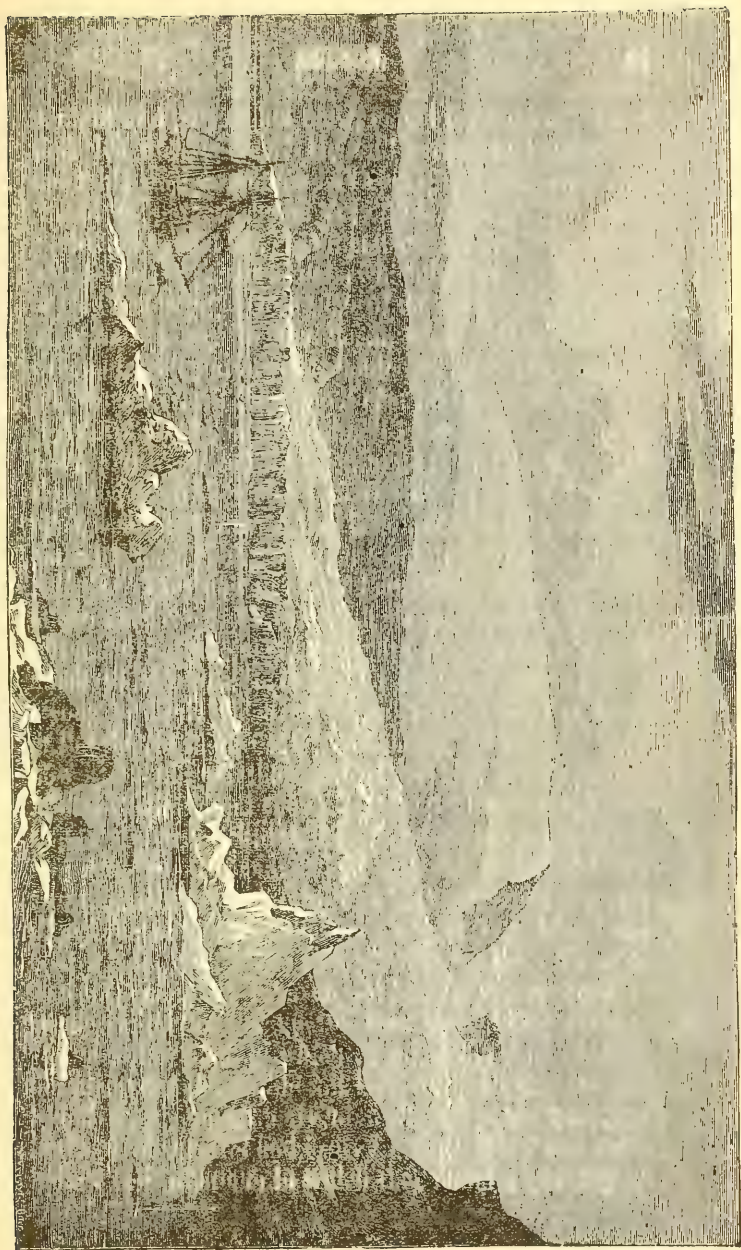
On the 22d of July the ship anchored in Kotzebue's Sound, and, after exploring a deep inlet on its northern shore, which they named Hotham Inlet, proceeded to Chamisso Island, where the Blossom was to await Franklin. A discretionary power had, however, been permitted to Beechey, of employing the period of his stay in surveying the coast, provided this could be done without the risk of missing Franklin. Having, accordingly, directed the barge to keep in-shore on the lookout for the land party, he sailed to the northward, and, doubling Cape Krusenstern, completed an examination

of the coast by Cape Thomson, Point Hope, Cape Lisburn, Cape Beaufort, and Icy Cape. As there were here strong indications of the ice closing in, and his instructions were positive to keep in open water, if possible, he determined to return to Kotzebue's Sound, whilst he despatched the barge, under his lieutenants, to trace the coast to the north-eastward, as far as they could navigate.

On this service the barge set out, on the 17th of August. She proceeded along the coast, and surveyed one hundred and twenty-six miles of new shore, until stopped by a long, low, projecting tongue of land, to which the name of Point Barrow was given, but without meeting or hearing any tidings of the expected overland party; though it was afterwards ascertained that Point Barrow was distant only one hundred and forty-six miles from the extreme point reached by Franklin.

In the mean time Beechey returned with the Blossom to Kotzebue's Sound. There she remained at the anchorage till October, when it became necessary to depart, to prevent her being frozen in for the winter; and, after a cruise in the Pacific, she shaped her course once more for the rendezvous at Chamisso Island. During the voyage to that point, where they arrived August 27th, 1827, Beechey and his men had repeated interviews with the Esquimaux, whose habits and disposition were in no respect different from those of the natives already described. They found them uniformly friendly, sociable, devotedly fond of tobacco, eager to engage in traffic, and, upon the whole, honest, though disposed to drive a hard bargain. On some occasions they attempted to impose upon their customers, by skins artfully put together, so as to represent an entire fish; but it was difficult to determine whether they intended a serious fraud or only a piece of humor, for

THE BLOSSOM AT ANCHOR IN KOTZENBUE'S SOUND.







they laughed heartily when detected, and appeared to consider it a good joke. Their persons, houses, and cookery, were all exceedingly dirty, and their mode of salutation was by a mutual contact of noses ; sometimes licking their hands, and stroking first their own faces, and afterwards those of the strangers.

The weather proved unfavorable for further operations ; there was very little open sea ; and, in endeavoring to push along the shore, the barge was wrecked, and several of her crew drowned ; and on the 6th of October Beechey was obliged to abandon further exploration, grieved and disappointed that he had not the satisfaction of bearing with him the adventurous party whom he had been sent especially to meet. He arrived in England October 12, 1828, having been absent on his voyage three years and a half.

The party under Franklin comprised the third of the expeditions to which we have referred. In 1824, Franklin, undeterred by the recollection of the fearful hardships endured in his former overland journey, proposed a second, which, descending the Mackenzie River to the sea, should there divide its force ; and, while one party explored the coast easterly to the Coppermine, the other should make its way westerly to Icy Cape, or, if possible, Behring's Strait. The project was duly sanctioned, and every preparation made to insure success, by building boats, providing scientific instruments, and supplying abundant provisions. Besides three strong and light boats, better suited to navigation among ice than bark canoes, a smaller one, covered with Mackintosh's prepared canvas, weighing only eighty-five pounds, and named "The Walnut Shell," was constructed for the purpose of crossing rivers.

In the preparations nothing appears to have been omitted. Scientific instruments of all kinds, fowling

pieces and ammunition, marquees and tents, bedding, clothing, and water-proof dresses, flour, arrow-root, macaroni, portable soup, chocolate, essence of coffee, sugar, and tea, not omitting an adequate supply of that essential article for all North American travellers, *pemmican*, — were supplied.

The officers under Franklin's orders were his old and tried companions and fellow-sufferers in the former journey, Dr. Richardson and Lieut. Back, with Mr. Kendall, a mate in the navy, and Mr. T. Drummond, a naturalist. Four boats, specially prepared for the purposes of the expedition, were sent out by the Hudson's Bay Company's ship. In July, 1825, the party arrived at Fort Chipewyan. They reached Great Bear Lake in safety, and erected a winter dwelling on its western shore, to which the name of Fort Franklin was given. To Back and Mr. Dease, an officer in the Hudson's Bay Company's service, were intrusted the arrangements for their winter quarters.

From here a small party set out with Franklin down the Mackenzie to examine the state of the Polar Sea. The sixth day after their departure they passed the last of the fir-trees, in latitude  $68^{\circ} 40'$ , these being succeeded by stunted willows, which became more dwarfish as they approached the sea. After the dissipation of a thick fog, the expanse of water to the northward was so great, that Franklin was inclined to think they had reached the sea; and in this he was almost confirmed on reaching the shore of Ellice Island, where they "were rejoiced at the sea-like appearance to the northward." "This point was observed to be in latitude  $69^{\circ} 14'$ , longitude  $135^{\circ} 57'$ , and forms the north-eastern entrance of the main channel of the Mackenzie River, which from Slave Lake to this point is one thousand and forty-five miles, according to our survey." On

reaching Garry Island, they ascended the summit, and from it "the sea appeared in all its majesty, entirely free from ice, and without any visible obstruction to its navigation, and never was a prospect more gratifying than that which lay open to us."

Franklin had left England under affecting circumstances. His first wife, who was then lying at the point of death, with heroic fortitude urged his departure at the very day appointed, entreating him, as he valued her peace of mind and his own glory, not to delay a moment on her account; that she was fully aware that her days were numbered, and that his delay, even if she wished it, could only be to close her eyes. She died the day after he left her. His feelings may be inferred, but not described, when he had to elevate on Garry Island a silk flag which she had made and given him as a parting gift, with the instruction that he was to hoist it only on reaching the Polar Sea.

On the 8th of September, Franklin and his party got back to their companions on Great Bear Lake, and prepared to pass the long winter of seven or eight months. On 5th October the last swan had passed to the southward, and on the 11th the last brown duck was noticed. On 6th May the first swan was seen, and on the 8th the brown ducks reappeared on the lake. The mosses began to sprout, and various singing-birds and orioles, along with some swifts and white geese, arrived soon after.

It is remarked by Dr. Richardson that the singing-birds, which were silent on the banks of the Bear Lake during the day, serenaded their mates at midnight; at which time, however, it was quite light. On 20th May the little stream which flowed past the fort burst its icy chains, and the laughing geese arrived, to give renewed cheerfulness to the lake. Soon after this the winter green began to push forth its flowers; and under

the increasing warmth of the sun's rays the whole face of nature underwent a delightful change. The snow gradually melted, the ice broke up from the shores of the lake, the northern sky became red and luminous at midnight, the dwarf-birch and willows expanded their leaves, and by the 3d June the anemones, the tussilago, the Lapland rose, and other early plants, were in full flower.

On the 28th June they embarked upon the Mackenzie ; on the 4th July they reached that part where the river divides into various channels, and the two parties were to pursue different directions. The western branch was the route to be pursued by the boats of Franklin's party, and the eastern branch by those of Richardson: the former to proceed along the northern coast westerly as far as Icy Cape, where it was expected to fall in with the Blossom ; the latter to examine the coast-line between the mouth of the Mackenzie and that of the Coppermine.

The parties now separated. On reaching the mouth of the Mackenzie, the western expedition came in contact with the Esquimaux. Franklin proceeded to open a communication with them. At first everything proceeded in a friendly manner. Augustus, after delivering a present, informed them that if the English succeeded in finding a navigable channel for large ships, an advantageous trade would be opened. This intimation was received with a deafening shout ; the boats were in a moment surrounded by nearly three hundred persons, offering for sale their bows, arrows, and spears, with a violence and perseverance which became at last troublesome, and Franklin directed the boats to be put to seaward.

At this moment a kayak was upset by one of the oars of the Lion, and its unhappy possessor was stuck by the accident with his head in the mud, and his heels in



the air. He was instantly extricated, wrapt in a warm great-coat, and placed in the boat; where, though at first frightened and angry, he soon became reconciled to his situation, and, looking about, discovered many bales and other articles which had hitherto been carefully concealed. His first impulse was to ask for everything he saw; his next, to be indignant that his requests were not granted; and, on joining his companions, he proposed a plan for a general attack and pillage of both the boats. This scheme was immediately carried into execution; and, though the plunderers at first affected to be partly in sport, matters soon assumed a serious complexion.

Two of the most powerful men, leaping on board, seized Captain Franklin, forced him to sit between them; and when he shook them off, a third took his station in front to catch his arm whenever he attempted to raise his gun, or lay his hand on the broad dagger which hung by his side. During this assault the two boats were violently dragged to the shore, and a numerous party, stripping to the waist and brandishing their long sharp knives, ran to the *Reliance*, and commenced a regular pillage, handing the articles to the women, who, ranged in a row behind, quickly conveyed them out of sight. No sooner was the bow cleared of one set of marauders, than another party commenced their operations at the stern. The crew in the *Lion* were nearly overpowered, and their commander disarmed, when all at once the natives took to their heels, and concealed themselves behind the drift timber and canoes on the beach. This sudden panic was occasioned by Captain Back, whose boat at this time had been got afloat, commanding his crew to level their muskets. The *Lion* happily floated soon after; and as both boats pulled off, Franklin desired Augustus to inform the Esquimaux that

he would shoot the first man who ventured to approach within musket-range.

An amicable leave was, however, afterwards taken of these people, and on the 13th of July Franklin put to sea. On the 27th he came to the mouth of a wide river, to which, as it proceeded from the British range of mountains, and was near the line of demarkation between Great Britain and Russia, Franklin gave the name of Clarence. They were now in lat.  $70^{\circ} 5'$ , long.  $143^{\circ} 55'$ . The further they advanced westerly the more dense became the fogs; the temperature descended to  $35^{\circ}$ , and the gales of wind became more constant; at night the water froze; and, the middle of August having arrived, the winter might here be said to have set in; the more early, probably, from the vicinity of the Rocky Mountains, and the extensive swampy plains between them and the sea. The men had suffered much, and on the 18th Franklin set out on his return to the Mackenzie, from the extreme point gained, named by him the Return Reef, in lat.  $70^{\circ} 24' N.$ , long.  $149^{\circ} 37' W.$

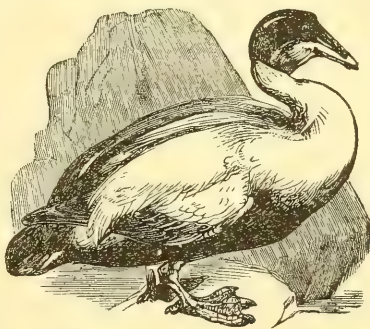
About this time, as it afterward appeared, the Blossom's boat, sent by Beechey from Behring's Strait, arrived on the coast, on which Franklin observes: "Could I have known, or by possibility imagined, that a party from the Blossom had been at the distance of only one hundred and sixty miles from me, no difficulties, dangers, or discouraging circumstances, should have prevailed on me to return; but, taking into account the uncertainty of all voyages in a sea obstructed by ice, I had no right to expect that the Blossom had advanced beyond Kotzebue Inlet, or that any party from her had doubled the Icy Cape."

Franklin states the distance traced westerly from the mouth of the Mackenzie River to have been three hundred and seventy-four miles, along one of the most

dreary, miserable, and uninteresting portions of sea-coast that can perhaps be found in any part of the world ; and in all that space not a harbor exists in which a ship could find shelter.

On the 21st of September the party reached Fort Franklin, after a voyage of two thousand and forty-eight miles. Here they had the happiness of meeting all their friends in safety ; the eastern detachment had arrived on the 1st of September, after a most successful voyage.

Richardson's party had been generally favored with fine weather. On one occasion a storm compelled them to take shelter in Refuge Cove, in lat.  $69^{\circ} 29'$ , which they left the following day. At their halting-place on the 13th July, the doctor says : " Myriads of mosquitos, which reposed among the grass, rose in clouds when disturbed, and gave us much annoyance. Many snow-birds were hatching on the point ; and we saw swans, Canada geese, eider, king, Arctic, and surf ducks several glaucous, silvery, black-headed, and ivory gulls, together with terns and northern divers. Some laughing geese passed to the northward in the evening, which may be considered as a sure indication of land in that direction." On the 14th the party



EIDER DUCK.

took shelter from the fog and a heavy gale in a cove called Browell Cove, in latitude  $70^{\circ}$ , longitude  $130^{\circ} 19'$

With some interruptions, their sail of five hundred

miles, or nine hundred and two by the coast-line, from one river to another, afforded a pleasant voyage, during which they added somewhat to the stores of natural history, botany, and geology.

A second winter passed at the fort. The cold was intense, the thermometer at one time standing at  $58^{\circ}$  below zero ; but such a temperature even as this may be defied, with a weather-tight dwelling, plenty of provisions, and congenial companions. A series of magnetic observations was commenced ; and, as the locality lay on the opposite side of the magnetic pole to that along which Parry had sailed in his voyages, some interesting results were arrived at. "It appears," says Franklin, "that for the same months, at the interval of only one year, Captain Parry and myself were making hourly observations on two needles, the north ends of which pointed almost directly towards each other, though our actual distance did not exceed eight hundred and fifty-five geographical miles ; and while the needle of Port Bowen was increasing its westerly direction, ours was increasing its easterly, and the contrary — the variation being west at Port Bowen, and east at Fort Franklin — a beautiful and satisfactory proof of the solar influence on the daily variation."

In addition to magnetism, observations of the aurora borealis were also recorded, and the fact established that no disturbance of the needle (in that locality, at least) takes place during the play of the phenomenon. A course of lectures, too, on practical geology, was delivered by Richardson — an eminently useful subject in a new district. And, as an instance of what a love for science may accomplish, when animated by a persevering and self-reliant spirit, we must not omit to mention Mr. Drummond, one of the party, who passed the winter alone at the foot of the Rocky Mountains, in a

small hut erected by himself, where he collected fifteen hundred specimens of plants, and two hundred birds and quadrupeds, besides insects. These, though points of minor interest, when compared with the grand objects of the expeditions, serve, nevertheless to connect the individuals whose names they distinguish, by many links of sympathy and esteem, with unobtrusive thousands who can admire where they cannot imitate







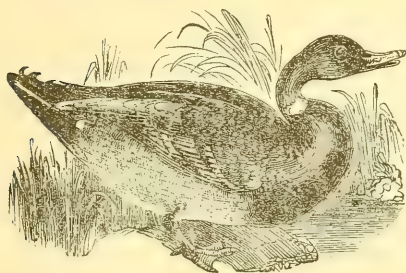
## CHAPTER VIII.

SCORESBY'S DISCOVERIES. — CLAVERING. — PARRY'S POLAR VOYAGE. —  
THE REINDEER. — HECLA COVE. — BOAT AND SLEDGE EXPEDITION. —  
NIGHT TRAVELLING. — HUMMOCKS. — SOFTENING OF THE ICE. — DRIFTING  
OF THE FLOES. — HIGHEST POINT REACHED. — THE POLAR BEAR. — RE  
TURN TO THE SHIP. — HOMEWARD BOUND.

WHILE Parry, under the auspices of the British government, was engaged in his second attempt to effect the north-west passage, a private adventurer, Mr. Scoresby, was making a voyage towards the north pole, which must not be passed without notice. As early as 1806, this gentleman, who was bred a practical whaler, had, in the pursuit of his calling, penetrated to latitude  $81^{\circ} 30'$ , being a degree higher than Phipps had attained, and only five hundred geographical miles from the pole. In 1817 he also made an excursion on Jan Mayen's Island. He had, on both occasions, made observations and explorations with an intelligent and scientific eye, very unusual among those who pursue a calling so rough and dangerous as whaling.

At Mitre Cape he ascended to the summit of the singular cliff of which it consists, and which is estimated to be three thousand feet above the level of the ocean. The view is described as sublime: on the east were two finely-sheltered bays; the sea formed an immense unruffled expanse to the west, the icebergs rearing their fantastic forms, glittering in the sunshine; the valleys

were enamelled with beds of snow and ice, and in the interior mountains rose beyond mountains, till they melted in the distant horizon. The beach of this cape



WILD DUCK.

was found nearly covered with the nests of terns, ducks, and other tenants of the Arctic air, in some of which were young, over whom the parents kept watch, and, by loud cries and quick, vehement movements,

sought to defend them against the predatory tribes which hovered round.

But the most important discoveries made by Scoresby were in 1822, when he sailed in the ship *Baffin*, of three hundred and twenty-one tons, and fifty men, for the whale fishery. In search of a better fishing-ground, he was led to the eastern coast of Greenland—a tract absolutely unknown, unless at a few points which the Dutch had approached; and it formed a continuous line with the shore on which the colonies of old Greenland, the subject of much controversy, were supposed to have been situated.

On the 8th of June, in  $74^{\circ} 6'$  north latitude, the coast was discovered, extending from north to south about ninety miles; and of which the most northerly point was concluded to be that named on the charts *Gale Hamkes's Land*, while the most southerly appeared to be *Hudson's Hold-with-Hope*. Scoresby's ambition, however, to mount some of its crags, which no European

foot had ever trodden, was defeated by an impassable barrier of ice ; and a similar one having closed in behind him, he was obliged to sail back and forward several days through a narrow channel. During this interval he had a good opportunity of taking the bearings and directions of the principal objects on land. The latitude, as given in the maps, was tolerably correct, and was, indeed, his only guide in tracing the positions ; for the longitude, after the most careful observation, was found to differ seven degrees from that in the best charts, and ten degrees from what is found in those usually supplied to the whale-fishers. The country was generally mountainous, rugged, and barren, bearing much resemblance to Spitzbergen, though less covered with snow.

Scoresby followed the usual system of naming the more prominent objects in the territory embraced by his discoveries. The two principal bays, or inlets, were designated Captain Kater and Sir Walter Scott ; while two spacious forelands, or projecting peninsulas — the former supposed to be an island — were assigned to Dr. Wollaston and Sir Everard Home. Other bays and capes were bestowed on some of the author's personal friends. He now made a movement eastward, in search of whales, of which he found no traces in the vicinity of land.

On the 19th of July the navigators came in view of a range of coast of a very bold and peculiar character, extending about forty miles. It presented a mountain chain from three to four thousand feet high, rising at once from the beach in precipitous cliffs, which terminated in numberless peaks, cones, and pyramids. In one instance there appeared to rise six or seven tall parallel chimneys, one of which, crowned with two vertical towers, was called Church Mount. This coast

received the name of Liverpool, while to the mountains was given that of Roscoe. The range of shore terminated at Cape Hodgson ; beyond which, however, steering south-west, they descried three other promontories ; to these were successively given the appellation of Cape Lister, Cape Swainson, and Cape Tobin.

Here Scoresby landed ; when he found the beach much lower than that further to the north, and consisting, in a great measure, of loose, stony hills. After some examination, he came, near Cape Swainson, to an enclosure similar to those which the Esquimaux construct for their summer huts, and within which were hollow structures, like bee-hives, such as they use for stores.

Resuming his course at sea, and still holding south westward, he now discovered a spacious inlet, to which, in looking upwards, no boundary could be seen. While penetrating this opening, he observed another sound branching to the northward behind the Liverpool coast, and supposed to form it into an island. The opposite shore of this entrance was named Jameson's Land, from the eminent professor of natural history in Edinburgh. Beyond Cape Hooker, the southern point of the coast just described, another large inlet stretched towards the north, to which was given the name of Basil Hall. It had every appearance of converting Jameson's Land into an island ; and the coast to the westward of it received the name of Milne's Land. Between Cape Leslie, constituting the northern point of that coast, and Cape Stevenson, on the opposite shore, the original opening continued to stretch into the interior, without any appearance of a termination. There appeared a strong presumption that, instead of the continuous mass of land which our maps represent, Greenland composes only an immense archipelago of islands. To this great

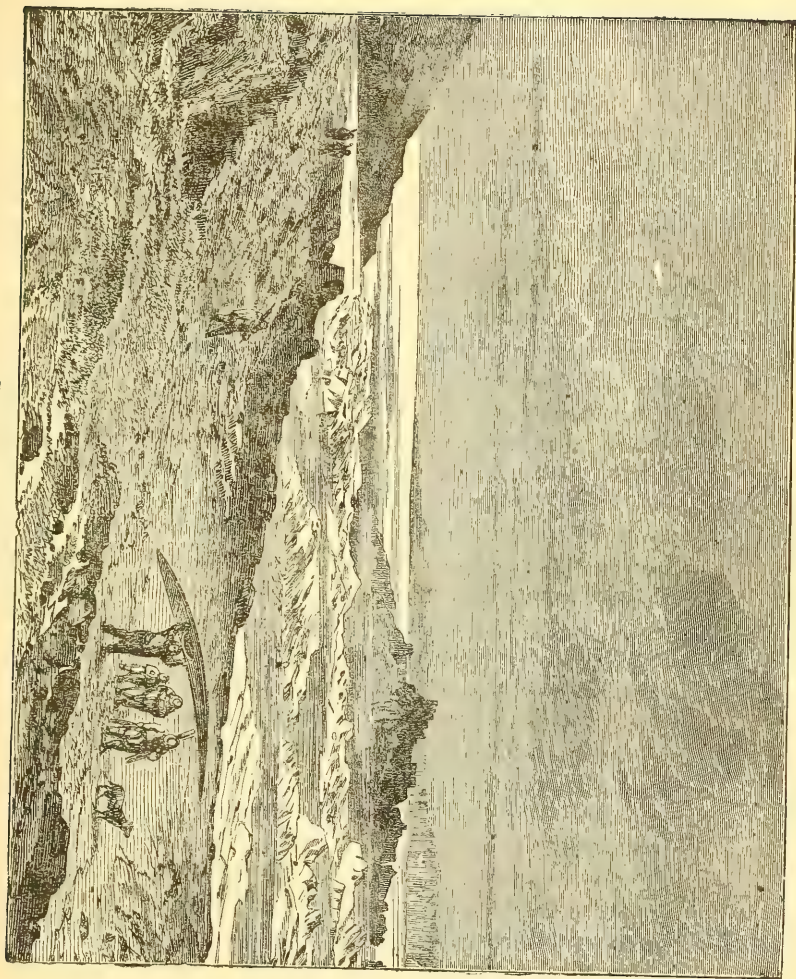
inlet, the entrance of which was bounded by Cape Tobin on the north, and Cape Brewster on the south, the navigator gave the name of his father, though posterity will probably be apt to associate with himself the name of "Scoresby's Sound."

These coasts, especially that of Jameson's Land, were found richer in plants and verdure than any others seen on this occasion within the Arctic circle, and almost meriting the distinction of Greenland. The grass rose in one place to a foot in height, and there were meadows of several acres, which appeared nearly equal to any in England. But nowhere could a human being be discovered, though there were everywhere traces of recent and even frequent inhabitation. At the foot of certain cliffs, named after Dr. Neill, were several hamlets of some extent. The huts appear to have been winter abodes, not constructed of snow-slabs, like the cells of the Esquimaux of Hudson's Bay, but resembling those of the Greenlanders, dug deep in the ground, entered by a long winding passage or funnel, and roofed with a wooden frame overlaid with moss and earth. The mansion had thus the appearance of a slight hillock. Near the hamlets were excavations in the earth, serving as graves, where implements of hunting, found along with the bones of the deceased, proved the prevalence here of the general belief of savage nations, that the employments of man in the future life will exactly resemble those of the present.

On emerging from this large sound, and proceeding southward, Scoresby discovered another continuous range of coast.

Disappointed as to any appearance of whales on this coast, he again steered to the northward, where icebergs surrounded him, amounting at one place to the number of five hundred. This course brought him in a







few days within sight of lands stretching still higher than those recently surveyed, and connecting them with the others which he had first discovered. There appeared two large territories, seemingly insular, to which were given the names of Canning and Traill; and between them was a most spacious inlet, named Sir Humphrey Davy. He landed on Traill Island, and with incredible toil clambered to the top of a hill, where he hoped to have found a small plain containing a few specimens of Arctic vegetation; but this summit was steeper than the most narrowly-pitched roof of a house; and, had not the opposite side been a little smoother, he would have found much difficulty in sliding down. Beyond this island, and separated from it by a considerable inlet, named after Lord Mountnorris, was another coast, the pointed extremity of which received the name of Parry. This promontory being at no great distance from Cape Freycinct, which had been seen in the first survey, there was thus completed the observation of a range of four hundred miles of coast, formerly known only by the most imperfect notices, and which might, therefore, be strictly considered as a new discovery.

Scoresby afterwards approached more closely to Canning Island, and penetrated a sound between it and the main, connected apparently with Hurry's Inlet. He would have been happy to examine more of the Greenland coast, having on one occasion had a fair prospect of being able to run southward to Cape Farewell; but the ship was not his own, and his duty to his employers compelled him to turn in another direction. He had hitherto met with much disappointment; and, the season being far advanced, he was apprehensive of being obliged to return with a deficient cargo. But, on the 15th of August, numerous whales appeared round the ship; of these five were struck, and three taken, which

at once rendered the ship *full-fished*, and placed him among the most successful adventurers of the year. He could, therefore, return with satisfactory feelings; and the pleasure of the voyage homeward was only alloyed by the occurrence of a violent storm off Lewis, in which Sam Chambers, one of the most esteemed and active of his crew, was washed overboard.

To these discoveries some additions were made next year by Captain Clavering, who was employed by the British Admiralty to convey Captain Sabine to different stations in the Arctic Sea, for the purpose of making observations on the comparative length of the pendulum, as affected by the principle of attraction.

Clavering sailed on the 3d of May, 1823, and on the 2d of June arrived at Hammerfest, in Norway, where he landed the philosopher with his tents and instruments. The observations being completed, he weighed anchor on the 23d, reached the northern coast of Spitzbergen, and fixed on a small island between Vogel Sang and Cloven Cliff for further operations.

He left this coast on the 22d of July, and steered for the eastern shores of Greenland, of which he came in view on the 5th of August. The scene appeared the most desolate he had ever beheld. The mountains rose to the height of several thousand feet, without a vestige of vegetation, or the appearance of any living creature on the earth or in the air. Even the dreary waste of Spitzbergen appeared a paradise to this. He landed his passenger and the scientific apparatus on two islands detached from the eastern shore of the continent, which he called the Pendulum Islands, and of which the outermost point is marked by a bold headland rising to the height of three thousand feet.

While Sabine was employed in his peculiar researches, the other surveyed a part of the coast which lay to the

northward, being the first which Scoresby saw. It lay at some distance, with an icy barrier interposed ; but was found indented with deep and spacious bays, suspected even to penetrate so far as to convert all this range of coast into a cluster of islands. The inlet which the former navigator had assigned to Sir Walter Scott was believed by Clavinging to be that discovered by the Dutch mariner, Gale Hamkes ; but we have not ventured to remove this last from the more northerly position preferred by the scientific whaler. Other openings, which occurred in proceeding towards the north, were named by the captain Foster's Bay, Ardincaple, and Roseneath Inlets ; and he saw bold and high land still stretching in this direction as far as the seventy-sixth degree of latitude.

In regard to the natives this commander was more fortunate than his predecessor, who saw only their deserted habitations. On landing at a point on the southern coast of Sir Walter Scott's Inlet, he received intelligence of Esquimaux having been seen at the distance of a mile, and hastened thither with one of his officers. The natives, on seeing them, immediately ran to the top of some rocks ; but the English advanced, made friendly signs, deposited a mirror and a pair of worsted mittens at the foot of the precipice, and then retired. The savages came down, took these articles, and carried them away to the place of their retreat ; but they soon allowed the strangers to approach them, though their hands, when shaken, were found to tremble violently. By degrees confidence was established, and they conducted the visitors to their tent, five feet high, and twelve in circumference, composed of wood and whalebone. Their aspect and conformation, their boats and implements, exactly corresponded to those observed by Parry and Lyon in Hudson's Bay. A child,



after being diligently cleared of its thick coating of dirt and oil, was found to have a tawny, copper-colored skin. The natives were astonished and alarmed beyond measure by the effect of fire-arms. A seal being shot, one of them was sent to fetch it. He examined it all over till he found the hole made by the ball, when, thrusting his finger into it, he set up a shout of astonishment, dancing and capering in the most extravagant manner. Another was prevailed upon to fire a pistol; but instantly, on hearing the report, started and ran back into the tent.

The observations were not completed till the beginning of September, when the season was too late to allow Clavering to gratify his wish of making a run to the northward. Nor did he extricate himself from the ice without some severe shocks; but nevertheless, after spending six weeks at Drontheim, he entered the Thames about the middle of December.

After the abortive voyage of Buchan and Franklin, in 1818, no further attempt was made to reach the pole in *ships*; but a plan was devised to accomplish that object in vehicles drawn over the frozen surface of the ocean—a scheme first suggested by Scoresby, who endeavored to prove that such a journey was neither so visionary nor so very perilous as it might appear to those who were unacquainted with the Arctic regions.

His suggestions did not, for a considerable time, attract attention; but at length Captain Parry, after his three brilliant voyages to the north-west, finding reason to suspect that his further progress in that direction was hopeless, turned his thoughts to the probability of penetrating over the frozen sea to the pole. Combining Scoresby's ideas with his own observations, and with a series of reflections derived by Captain Franklin from his extensive experience, he submitted to the Lords of

the Admiralty the plan of an expedition over the polar ice. Their lordships, having referred this proposal to the council and committee of the Royal Society, and received a favorable report as to the advantages which science might derive from such a journey, applied themselves with their usual alacrity to supply the captain with everything which could assist him in this bold undertaking.

The *Hecla* was employed to carry him to the northern coast of Spitzbergen, where she was to be secured in a safe harbor or cove; and with her were sent two boats, to be dragged or navigated, according to circumstances, from that island to the pole. These boats being framed of ash and hickory, covered with water-proof canvas, over which were successive planks of fir and oak, with a sheet of stout felt interposed, united the greatest possible degree of strength and elasticity. The interior was made capacious, and flat-floored, somewhat as in troop-boats; and a runner, attached to each side of the keel, fitted them to be drawn along the ice like a sledge. Wheels were also taken on board, in case their use should be found practicable.

The adventurers started on the 27th of March, 1827, and on the 19th of April entered the fine harbor of Hammerfest, in Norway, where they remained two or three weeks, and took on board eight reindeer, with a quantity of picked moss for their provender. Departing on the 11th of May, they soon found themselves among the ice, and met a number of whale-ships. On the 13th they were in view of Hakluyt's Headland, when the captain endeavored to push his way to the north-east, in the track of Phipps. The vessel, however, was soon completely beset, and even enclosed in a large floe, which carried her slowly along with it.

As every day was now an irretrievable loss, Parry

became impatient in the extreme, and formed a plan to push off northward, leaving the ship to find a harbor for herself, where he trusted, on his return, to trace her out. But the survey of the route in the proposed direction was most discouraging. In consequence of some violent agitation the preceding season, the ice had been piled up in innumerable hummocks, causing the sea to resemble a stone-mason's yard, except that it contained masses ten times larger. This state of the surface, which would have rendered it impossible to drag the boats more than a mile in the day, was found to prevail for a considerable space with little interruption.

The current, meantime, continued to carry the ship, with the floe to which she was fastened, slowly to the eastward, till it brought her into shoal water. Parry lowered a boat, and found some heavy masses of ice attached to the bottom in six fathoms; after which he felt it quite out of the question to leave her with a diminished crew, and exposed to so much danger, arising from the combined difficulty of unsurveyed ground and ice. The conclusion was therefore irresistibly forced upon his mind, that a secure harbor must be sought for the vessel before setting out with the boats. No choice was then left but to steer back for the coast of Spitzbergen, where he unexpectedly lighted on a very convenient recess, named by him Hecla Cove; and it proved to be part of the bay to which an old Dutch chart gives the name of Treurenberg.

The animals met with here during the Hecla's stay were principally reindeer, bears, foxes, kittiwakes, glaucous and ivory gulls, tern, eider-ducks, and a few grouse. Looms and rotges were numerous in the offing. Seventy reindeer were killed, chiefly very small, and, until the middle of August, not in good condition

They were usually met with in herds of from six or eight to twenty, and were most abundant on the west and north sides of the bay. Three bears were killed. The vegetation was tolerably abundant.

The neighborhood of this bay, like most of the northern shores of Spitzbergen, appears to have been much visited by the Dutch at a very early period. There are thirty graves on a point of land on the north side of the



REINDEER.

bay. The bodies are usually deposited in an oblong wooden coffin, which, on account of the difficulty of digging the ground, is not buried, but merely covered by large stones; and a board is generally placed near the head, having, either cut or painted upon it, the name of the deceased, with those of his ship and commander, and the month and year of his burial. Several of these were fifty or sixty years old; one bore the date of 1738; and another, which Parry found on the beach

to the eastward of Hecla Cove, that of 1690 ; the inscription distinctly appearing in prominent relief, occasioned by the preservation of the wood by the paint, while the unpainted part had decayed around it.

It was now the 20th of June, and the best of the season had been spent in beating backwards and forwards on these ice-bound shores ; he therefore resolved, without further delay, to prosecute the main object of his enterprise ; and, though scarcely hoping to reach the pole, he determined, at all events, to push as far north as possible. He took with him seventy-one days' provision, consisting of pemmican, biscuit, cocoa, and rum. The spirit of wine, as the most portable and concentrated fuel, was alone used for that purpose. There were provided changes of warm clothing, thick fur dresses for sleeping in, and strong Esquimaux boots. The reindeer, and also the wheels, were given up at once, as altogether useless in the present rugged state of the ice ; but four sledges, constructed out of the native snow-shoes, proved very convenient for dragging along the baggage.

On the 22d of June the expeditionary party quitted the ship, and betook themselves to the boats, amid the cheers of their associates. Although all the shores were still frozen, they had an open sea, calm and smooth as a mirror, through which, with their loaded vessels, they advanced slowly, but agreeably. After proceeding thus for about eighty miles, they reached, not, as they had hoped, the main body of the ice, but a surface intermediate between ice and water. This could neither be walked nor sailed over, but was to be passed by the two methods alternately ; and it was on such a strange and perilous plain that they had to land, in order to commence their laborious journey toward the pole.

Parry describes in an interesting manner the singular



mode of travelling which they were compelled to adopt. The first step was to convert night into day—to begin their journey in the evening, and end it in the morning. Thus, while they had quite enough of light, they avoided the snow-glare, and the blindness which it usually produces; besides, the ice was drier and harder beneath them; and they enjoyed the greatest warmth when it was most wanted, during the period of sleep, though they were a little annoyed by dense and frequent fogs. Thus their notions of night and day became inverted. Several of the men declared that they never knew night from day, during the whole excursion. They rose in what they called the morning, but which was really late in the evening, and, having performed their devotions, breakfasted on warm cocoa and biscuit; then, drawing on their boots, usually either wet or hard frozen, and which, though perfectly dried, would have been equally soaked in fifteen minutes, the party travelled five or six hours, and a little after midnight stopped to dine. They next accomplished an equal journey in what was called the afternoon; and in the evening, that is, at an advanced hour in the morning, halted as for the night. After applying themselves to obtain rest and comfort, they put on dry stockings and fur boots, cooked something warm for supper, smoked their pipes, told over their exploits, and, forgetting the toils of the day, enjoyed an interval of ease and gayety; then, well wrapped in their fur cloaks, they lay down in the boat, rather too close together, perhaps, but with very tolerable comfort; and in due time the sound of a bugle roused them to their breakfast of cocoa, and to a repetition of the same arduous duties.

The progress for several days was most slow and laborious. The floes were small, exceedingly rough, and intersected by lanes of water, which could not be

crossed without unloading the boats. It was commonly necessary to convey these and the stores by two stages; and the sailors, being obliged to return for the second portion, had to go three times over the same ground. Sometimes they were obliged to make three stages, and thus to pass over it five times.

There fell as much rain as they had experienced during the whole course of seven years in the lower latitude. A great deal of the ice over which they travelled was formed into numberless irregular needle-like crystals, standing upwards, and pointed at both ends. The horizontal surface of this part had sometimes the appearance of greenish velvet, while the vertical sections, when in a compact state, resembled the most beautiful satin spar, and asbestos when going to pieces. These peculiar wedges, it was supposed, were produced by the drops of rain piercing through the superficial ice. The needles at first afforded tolerably firm footing; but, becoming always more loose and movable as the summer advanced, they at last cut the boots and feet as if they had been pen-knives. Occasionally, too, there arose hummocks so elevated and rugged that the boats could only be borne over them, in a direction almost perpendicular, by those vigorous operations called "a standing pull and a bowline haul."

The result of all this was, that a severe exertion of five or six hours did not usually produce a progress of above a mile and a half or two miles, and that in a winding direction; so that, after having entered upon the ice on the 24th of June, in latitude  $81^{\circ} 13'$ , they found themselves on the 29th only in  $81^{\circ} 23'$ , having thus made only about eight miles of direct northing. Parry soon relinquished all hope of reaching the pole; however, it was resolved to push on as far as possible; and the party coming at length to somewhat smoother ice

and larger floes, made rather better progress. While the boats were landing on one of these, the commander and Lieut. Ross usually pushed on to the other end, to ascertain the best course. On reaching the extremity, they commonly mounted the largest hummock, whence they beheld a sight of which nothing could exceed the dreariness. The eye rested solely upon ice, and a sky hid in dense and dismal fogs.

One warm day, two flies on the ice were regarded with a degree of attention that would have been ludicrous under other circumstances; and equally important was the sight of an *aphis borealis*, in a languid state, a hundred miles away from land. Amid this scene of inanimate desolation, the view of a passing bird, or of ice in any peculiar shape, excited an intense interest, which they smiled to recollect; but they were principally cheered by viewing the two boats in the distance, the moving figures of the men winding with their sledges among the hummocks, and by hearing the sound of human voices, which broke the silence of this frozen wilderness. The rain and the increasing warmth of the season, indeed, gradually softened the ice and snow, but this only caused the travellers to sink deeper at every step. At one place they sank repeatedly three feet, and required three hours to make a hundred yards. Having attained  $82^{\circ} 40'$ , they began to hold it as a fixed point that their efforts would be crowned with success so far as to reach the eighty-third parallel. This hope seemed converted into certainty when, on the 22d, they had travelled seventeen miles, the greater proportion of which was directly north. But there now occurred an unfavorable change, which baffled all their exertions.

Down to the 19th, the wind had blown steadily from the south, which, though without aiding them much, had at least checked the usual movement of the ice in

that direction. On the last of these days, however, a breeze sprang up from the north, which opened, indeed, a few lanes of water ; but this, it was feared, could not compensate for the manner in which it must cause the loosened masses of ice, with the travellers upon them to drift to the southward. This effect was soon found to take place to an extent still more alarming than had been at first anticipated ; for, instead of ten or twelve miles, which they reckoned themselves to have achieved northward on the 22d, they were found not to have made quite four. This most discouraging fact was at first concealed from the sailors, who only remarked that they were very long in getting to the eighty-third degree.

The expedition was now fast approaching the utmost limits of animal life. During their long journey of the 22d, they only saw two seals, a fish, and a bird. On the 24th only one solitary *rotge* was heard ; and it might be presumed that, from thence to the pole, all would be a uniform scene of silence and solitude. The adventurers pushed on without hesitation beyond the realms of life ; but now, after three days of bad travelling, when their reckoning gave them ten or eleven miles of progress, observation showed them to be four miles south of the position which they occupied on the evening of the 22d — the drifting of the snow-fields having in that time carried them fourteen miles backward.

This was too much ; and to reach even the eighty-third degree, though only twenty miles distant, was now beyond all reasonable hope. To ask the men to undergo such unparalleled toil and hardship, with the danger of their means being exhausted, while an invisible power undid what their most strenuous labors accomplished, was contrary to the views of their considerate commander. In short, he determined that they should take a day of rest, and then set out on their

return. This resolution was communicated to the crew, who, though deeply disappointed at having achieved so little, acquiesced in the necessity, and consoled themselves with the idea of having gone further north than any previous expedition of which there was a well-authenticated record.

The furthest point of latitude reached was on the 23d, and was, probably, to  $82^{\circ} 45'$ . "At the extreme point of our journey," says Parry, "our distance from the Hecla was only one hundred and seventy-two miles in a S.  $8^{\circ}$  W. direction. To accomplish this distance we had traversed, by our reckoning, two hundred and ninety-two miles, of which about one hundred were performed by water previously to our entering the ice. As we travelled by far the greater part of our distance on the ice three, and not unfrequently five, times over, we may safely multiply the length of the road by two and a half; so that our whole distance, on a very moderate calculation, amounted to five hundred and eighty geographical, or six hundred and sixty-eight statute miles, being nearly sufficient to have reached the pole in a direct line. Up to this period we had been particularly fortunate in the preservation of our health." Their day of rest (July 27th), before starting to return, was one of the pleasantest they had experienced upon the ice; the thermometer only from  $31^{\circ}$  to  $36^{\circ}$  in the shade, and  $37^{\circ}$  in the sun; no bottom with five hundred fathoms of line.

The return was equally laborious as the going out, and in some respects more unpleasant, from the increasing softness of the ice and snow — depriving them of confidence in any spot on which they placed their boats or persons, and often sinking two or three feet in an instant. On the 1st of August some recent bear-tracks were seen, and, soon after, Bruin himself appeared; but,



though attempts were made to draw him within gunshot, he escaped unharmed. But, on the 4th, a fat bear



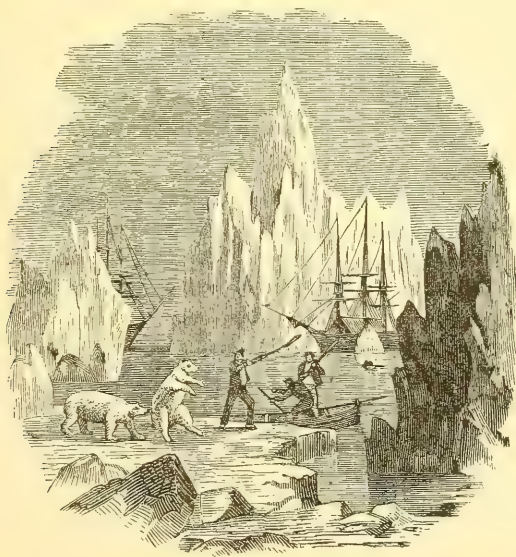
POLAR BEAR.

was shot by Lieut. Ross ; and “the men were frying steaks, during the whole day, over a large fire made of the blubber.” To some the consequence of their indulgence was an indigestion. On the 10th another bear was killed ; “and our encampment,” says Parry, “became so like an Esquimaux establishment that we were obliged to shift our place upon the floe in the course of the day, for the sake of cleanliness and comfort.”

At length, on the 11th of August, Parry and his party heard the sound of the surge breaking against the exterior margin of the great icy field. They were soon launched on the open sea, and reached Table Island, where a supply of bread had been deposited ; but Bruin

had discovered it, and devoured the whole. They found, however, some accommodations, while the stores left at the Warden Island were still quite undisturbed. On the 21st the navigators arrived in Hecla Cove, from whence, soon afterwards, they sailed for England.

Such was the result of the first and only attempt to penetrate to the pole over the frozen surface of the deep. All the energy and hardihood of British seamen were exerted to the utmost, without making even an approach towards the fulfilment of their intention; yet there seems nothing in the details just given to deter from the enterprise, as impossible, or even to render it very unfeasible. The unfavorable issue was evidently owing to the advanced season of the year, when the thaw and consequent dissolution of the ice had made great progress, and all the materials of the great northern floor were broken up.





## CHAPTER IX.

**ROSS'S SECOND VOYAGE. — HOLSTEINBORG. — DISCO ISLAND. — LANCASTER SOUND. — BOOTHIA. — DISCOVERY OF THE FURY'S STORES. — DANGEROUS NAVIGATION. — PREPARATIONS FOR WINTERING. — VISIT FROM ESQUIMAUX. — EXCURSION. — SECOND WINTER IN THE ICE. — THE MAGNETIC POLE. — THIRD AND FOURTH WINTER. — ABANDONMENT OF THE VICTORY. — MEETING WITH A WHALER.**

NEXT in chronological order is the expedition equipped at the cost of Sir Felix Booth, and conducted by Captain Ross, and his nephew, Commander (afterwards Sir James) Ross. They sailed in May, 1829, in the *Victory*, a vessel fitted with a steam-engine, in addition to her sails, so as to be able to navigate in calm weather, or in baffling winds. The object of the voyage was to search for the north-west passage, as Parry had done before, by some opening leading out of Regent's Inlet.

On the 22d of July they entered a bay which opened into two magnificent inlets, bordered by rocks of imposing form; and every spot, not absolutely a precipice, was covered with such bright verdure as to justify the appellation of Greenland. In sailing upwards, the unexpected appearance of a Danish flag surprised the crew, and they learned that they were now near a settlement belonging to that nation, called Holsteinborg. The governor had seen the masts above the rocks, and apprehensive of their being those of a vessel in distress, kindly sent an offer of aid. The party were immediately

conducted to the village, where they had a hospitable reception, with entertainment such as they little expected on those dreary shores.

They here found a disabled vessel, and from it replenished their stores and spars. The provisions were raised to their full complement. Some boots and gloves were obtained from the natives, and the governor made a useful present of six Esquimaux dogs.

On the 26th the discoverers sailed to the northward; and on the morning of the 28th the stupendous mountains of Disco Island, long enveloped in mist, burst on their view, only a few miles distant. The range nearest the shore was entirely free from snow, and the interior hills were but partially covered. Hare Island was almost equally clear; and, though forty icebergs were observed, yet, as the navigators approached the latitude of  $74^{\circ}$ , near to where the Hecla and Fury had been beset in 1824, not a vestige of ice was perceived. They might have fancied themselves sailing on the summer seas of England, or even of the Mediterranean; the men threw off their jackets, and worked in their shirts, without shoes or stockings. They had several times recourse to the engine, though, from practical defects, it never enabled them to sail above a mile and a half an hour; and it was subsequently thrown overboard, as a useless encumbrance.

On the 6th of August, a thick fog having dispersed, the coast was suddenly displayed, with all its highlands, among which Cape Byam Martin was conspicuous, covered with snow. On reaching the entrance of Lancaster Sound, and reverting to the blame imputed to him for not having explored it, the captain observes that, from the deceptive appearances presented by bays and inlets, similar mistakes had been made by Cook, and other navigators of the greatest skill. No opinion differing

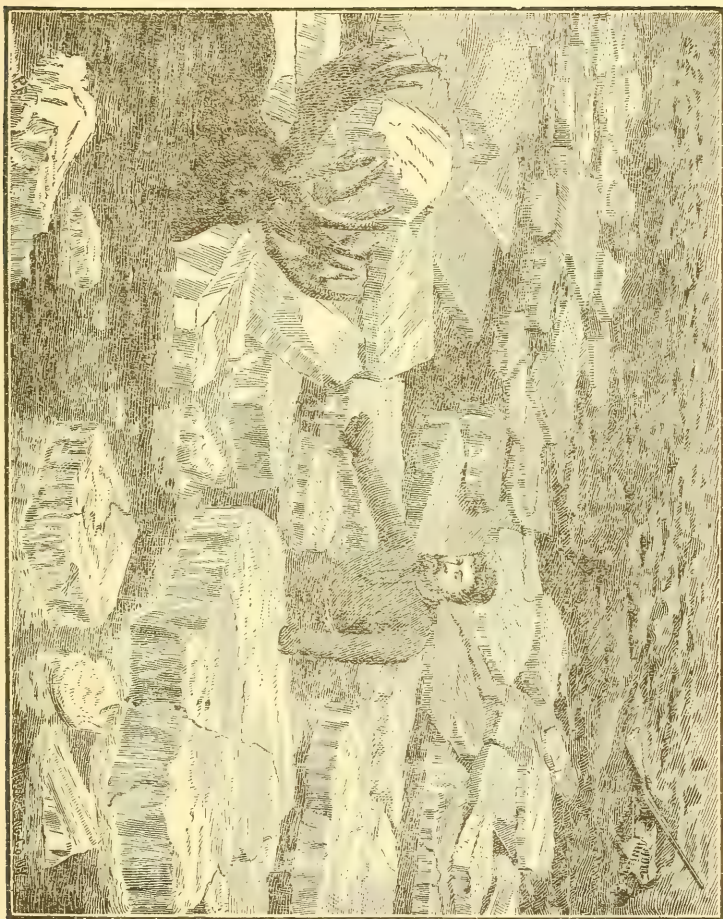
from his had been expressed by any one of his officers, who, if they entertained any such, were unquestionably bound to have stated it. The ice, moreover, lay then so thick that he could have penetrated but a few miles further.

Now, however, he sailed through the middle of the strait, perceiving scarcely any trace of ice or snow, unless on the tops of the lofty mountains. The thermometer stood at  $40^{\circ}$ , while the sensible heat was so much greater that they felt it agreeable to dine without a fire, and with half the skylight removed. For two days they made only a slow and laborious progress, by the aid of steam; but, on the 9th, a welcome breeze sprang up from the east, and, all sail being set, on the 10th they passed Cape York, after which the land begins to turn southward, and, with the opposite coast of North Somerset (Boothia), forms the broad opening of Prince Regent's Inlet. This being the channel by which Ross hoped to accomplish his passage, he immediately steered across, and reached the western shore on the afternoon of the 11th, between Cape Seppings and Elwin Bay.

In sailing southward along this coast, some heavy gales were encountered; and the ice having been broken off in the various forms of streams, packs, and bergs, the full difficulties of Arctic navigation began to be experienced. These were increased by the near approach to the magnetic pole, so that the compass ceased to traverse; and the bearings could be ascertained only by observations on the sun, which was often obscured by heavy fogs. The navigators made their way, however, and on the 12th descried the place of the *Fury's* wreck, with the poles of the tents standing. They hastened, with intense interest, to examine this spot. The hull of the ship, which was left on the beach, had disappeared, without even a vestige remain-



CAPT. ROSS WADING AFTER HIS GAME.





ing. The moving masses of ice had either carried it out in a body, or broken it into fragments and scattered it as drift-wood over the surrounding sea. But it was an ample compensation to find that the canisters of preserved provisions, after being exposed during four years, were in as perfect condition as if they had been newly prepared. The tightness of these vessels had prevented the bear from smelling the rich feast they contained for him, and to which otherwise he would soon have forced his way. The wine, spirits, sugar, bread, flour, and cocoa, were, with little exception, equally good, and the sails were found in complete preservation. After taking in all the provisions they could conveniently stow, raising their stock to two years and three months' supply, the accumulated pile seemed scarcely diminished. Here, also, they procured a store of coal.

Crossing now the broad mouth of Cresswell Bay, they reached, on the 15th of August, a cape to which the name of Garry has been attached, the furthest point seen by Parry. The land trended in a south-south-west direction, which, with few variations, it continued to follow. Deprived of all aid from the compass, and often enveloped in fogs, they worked their way slowly, amid many difficulties and frequent dangers, being obliged to steer merely according to the direction which the wind, or even the floating ice, had, in the last clear interval, been observed to pursue. While mountains of ice were tossing around them on every side, they were often forced to seek safety by mooring themselves to these formidable masses, and drifting with them, sometimes forward, sometimes backward. In this manner, on one occasion, no less than nineteen miles were lost in a few hours; at other times they underwent frequent and severe shocks, yet escaped any serious dam

age. Ross conceives that his little bark, merely by its moderate draught of water, was much better fitted for such a navigation than the larger vessels employed in previous expeditions, and that those of Parry would have been shattered to pieces by the rocks over which the Victory was carried in safety.

On several points of this coast they observed Esquimaux tents,—at one place twenty in number,—but none of the natives. Many whales appeared on the surface of the water close to them, without showing any apprehension of man.

Among the leading features of the coast was Brentford Bay, of considerable extent, with some fine harbors, thirty miles beyond Cape Garry. Here the captain landed, displayed his colors, and, drinking the king's health, took possession, in his majesty's name, of the land, to which he gave the name of Boothia.

Under all impediments, in the course of August and September, he worked his way along three hundred miles of undiscovered coast, and to within two hundred and eighty miles of the point which Franklin had reached. Here the land, taking a westerly direction, seemed to afford the fair promise of a passage between the country now surveyed and the continent of America. But, by the end of September, snow began to fall thick ; the thermometer sank far below the freezing-point, while ice in large masses was closing around them. They therefore considered themselves fortunate when, in a spacious bay between a rocky island and two icebergs, they found a station in Felix Harbor, in which, after due arrangements, they could reckon on passing the dreary season in security.

On the 7th of October, by sawing through the ice, the vessel was placed in the position where it could be most advantageously lodged for the winter. On the

8th, there appeared no longer an atom of clear water ; and, except some occasional points of rock, "nothing but one dazzling and monotonous, dull and wearisome extent of snow was visible." The temperature, which had been ranging between  $10^{\circ}$  and  $22^{\circ}$ , rapidly fell, and, on the night of the 20th, descended as low as  $9^{\circ}$  under zero, or  $41^{\circ}$  below the freezing-point, and, before the end of the month, was at  $-16^{\circ}$ .

In preparing for the gloom and rigor of this long winter, Ross made some improvements even upon the admirable arrangements of Parry. The upper deck having been covered two feet and a half deep with snow, it was trodden down to the consistence of solid ice, and sand spread over it, till it resembled a rolled gravel-walk. It was then roofed with canvas, which was conducted over the sides till it united with a bank of snow that had been formed around the vessel, thus completely fencing it in on every side. The vapor from the steam-kitchen and oven, instead of being allowed to spread through the cabins, was conveyed by apertures in the upper deck, over which were placed to receive it iron tanks, with the open side downwards, where it soon froze, and the ice was cleared out once a week. By this plan the apartments were preserved perfectly dry, and it was not necessary, as formerly, to keep them up to the temperature of  $70^{\circ}$ , in order to prevent the vapor from freezing on their sides ; that of  $45^{\circ}$  was found quite sufficient for health and comfort, and a great saving of fuel was in consequence effected. Two small ante-chambers were formed, and in the outer one such of the men as had been exposed to the atmosphere were required to leave the clothes on which snow had fallen. The air necessary to produce combustion was introduced by a copper pipe direct to the fireplace, where it was immediately warmed, and, instead of chill-



ing, served to heat and dry the room. The strength and spirits of the crew were supported by regular meals and constant occupation. Divine service was duly performed, and religious instruction dispensed at a school held every Sunday evening. On the other nights a school also was attended.

The stock of provisions, on examination, was found sufficient for two years and ten months at full allowance, a quantity which could easily be managed so as to last three years. Fuel was equally abundant. The only article deficient was spirits, of which there was only one year's full supply; but this want the commander by no means regretted, being satisfied that *their habitual use impaired the strength of the seaman, diminished his power of enduring cold, and rendered him more liable to scurvy*. He was gratified, therefore, when the crew cheerfully consented to their being withheld, unless on special occasions; and he considers this circumstance as having remarkably contributed to the preservation of their health.

Traces of Esquimaux had been observed on different parts of the coast, but none had been hitherto seen. At length, on the morning of the 9th of January, 1830, a party were discovered. Ross immediately proceeded to the spot, upon which they retreated, but soon returned with a body of their companions, ranged in a line of ten in front and three deep, one man being detached, who appeared to be sitting in a sledge. The captain, having sent for his nephew and some of the crew, desired them to remain behind, while he walked toward the Esquimaux, who were armed with spears and knives. He hailed them by the well-known national salutation, *Tima! tima!* which was shouted by them in return. The navigators then advanced, and, throwing away their guns, called out, *Aja, tima!* upon which

the others tossed their knives and spears in the air, repeating the shout, *Aja!* and extending their hands to show that they had now no weapons. As they stood still, however, the discoverers approached; and embraced all those in the front line, stroking their dress, and receiving in their turn this customary greeting. Their gratification was testified by laughing, clamor, and strange gestures. Thus full confidence was at once established between the two parties.

Next day the discoverers visited this people at their own village, which consisted of twelve snow huts, constructed in the same manner as those observed by Parry. This tribe were thought, on the whole, to be cleaner and better dressed than those more to the northward; besides, they kept a store of seal and reindeer buried in the snow—a precaution not before noticed among any Esquimaux.

While the British remained on these shores, they held frequent intercourse with this and other parties of natives. Some of the places about Repulse Bay being named and described, they showed an intimate acquaintance with them, stating that they had recently journeyed from that quarter. Two of them, Tulluahiu and Ikmalik, drew a sketch of the line of coast by which they had travelled, and this was amended by a learned lady, Tiriksiu. The general result proved to be, that between the present station and Repulse Bay there intervened a very extensive gulf, of which the limits were Melville Peninsula on the east, the American coast on the south, and the country in which they now were, on the west.

The grand question, whether there was any navigable opening further westward, could not be then ascertained, though they had reason to believe that, if there was, it must be very narrow. The strongest interest, however, was excited by the accounts given by another party of

a great sea lying to the westward, and of a strait which it was hoped might lead into it. On the 5th of April, therefore, when the rigor of winter had somewhat abated, Commander Ross, with Mr. Blanky, the chief mate, and two native guides, undertook an expedition to explore it. The weather being still very inclement, they were frequently obliged to pause and seek refuge from the drift, when the Esquimaux in half an hour erected snow huts, which afforded tolerable shelter. Unluckily the fire necessary for heat and light, melting the walls of this frail tenement, enveloped them in moisture, to avoid which they were obliged to creep into their fur bags.

After a difficult journey of three days, they reached a bay facing the westward, and, on proceeding a short distance inland to the south and south-east, discovered a very extensive lake, called by the natives Nci-tyel-le, whence a broad river flowed into the bay. On their return to the coast, the guides pointed out a lofty cape, beyond which there was said to be a vast sea, the termination of which could not be described. They declared, however, that a tract of land, or isthmus, connecting the territory on which they stood with the continent of America, would render it impossible for the vessel to reach the western sea in this direction, or otherwise than by a channel considerably *north* of her present station.

The journey so far had issued only in disappointment. They learned that, on the coast nearest them, facing the eastward, there was a place called Shagavoke, where the water rushed through a narrow strait with extraordinary rapidity. Hence arose hopes that this tide might come from the opposite sea, and afford a channel through which the ship could be worked. But, on examination, this idea proved fallacious, and every idea

of a passage south of the ship's present station was renounced.

It was to the north that all hopes of finding the desired passage were now directed. So far, however, as they were personally able to examine the land, its aspect was unpromising, and the most intelligent natives intimated that the only channel was in a much more northerly quarter, supposed to be no other than Barrow's Strait, through which Parry had already navigated.

Before prosecuting further discoveries in this direction, another journey was resolved upon to the westward, beyond the isthmus, to trace the coast of America as it extended along the newly-discovered sea. They thus hoped to reach Cape Turnagain, and to connect their discoveries with those of Franklin. The younger Ross again set out on the 17th May, with three companions, eight dogs, and provisions for twenty-one days; and on the 19th, having crossed the great middle lake of the isthmus, he reached his former station on the western sea. The first view of it was celebrated by three loud and even joyous cheers, though tempered with regret at the diminished prospect of ever being able to navigate it. Having to spend the night here, they contrived a more comfortable sleeping-place, by excavating a sort of burrow in the snow, roofing it with their skin boat, and placing a block of snow as a door.

After passing Cape Isabella, formed of gray granite five hundred feet high, the party travelled along the coast west and north for twenty miles. On the morning of the 21st of May they discovered, behind a lofty point, an inlet, which, from its breadth and the different character of its opposite coasts, afforded the hope that it might open into the Polar Ocean. They therefore made a complete circuit and a careful survey of its

shores ; but the only opening found was clearly ascertained to be the mouth of a river, named by them Garry. On ascending a high hill, they perceived several large lakes extending to the north-east, and forming, in fact, an almost continuous chain to Thom's Bay, near the Victory's station ; with interruptions enough, however, to prevent a ship passing through. Next day they proceeded north-west along the coast ; but, resolving to reach the opposite land some miles distant, they crossed the frozen surface of the strait, and came to a large island, which was named Matty. They pursued their fatiguing journey along its northern shore, over rough ice ; and, passing another narrow strait, which they called Wellington, found themselves on the mainland of America.

The coast now stretched due west, and, the surface being level, they proceeded with comparative ease and rapidity. The direction changing to the north-west, they soon arrived at a spacious bay, which was named Parry. They then travelled onwards two days, but with difficulties continually increasing, and experiencing great embarrassment, as regarded both their advance and return, in distinguishing between land and sea. " When all is ice, and all one dazzling mass of white — when the surface of the sea itself is tossed up and fixed into rocks, while the land is, on the contrary, very often flat — it is not always so easy a problem as it might seem, on a superficial view, to determine a fact which appears in words to be extremely simple."

After experiencing great hardships from the exhausted state of their dogs, and the necessity of abandoning a great part of their provisions, their return was attended with a considerable increase of suffering. The dogs fell victims to successive calamities, till, of eight, only two remained alive. It was proposed to vary the scene by



keeping south of Matty Island, along the coast of the continent; but, observing that it formed an extensive bay with winding shores, to follow the sinuosities of which would have consumed too much time, they pushed forward in a direct line over the frozen surface of the sea. On the 8th June they arrived in a very exhausted state in the neighborhood of Nei-tyel-le, where they met a party of natives, who received them hospitably, and supplied them so plentifully with fish, that they were able to take a day's rest, and proceed at leisure to the vessel, which they reached on the 13th.

Meantime, Captain Ross himself had made a journey, though of more limited extent, with the intention of surveying the isthmus of Boothia, when he made the partial discovery of another large lake, to which he gave the name of Lady Melville.

The nephew, upon his return, found that he had arrived just in time. The early spring, the only season when travelling is practicable in this region, was over. The thaw had set in with extraordinary rapidity; the country was under water; the streams impassable, and the surface of the ocean could not have been traversed without the greatest danger. Except a short excursion to procure fish, all their attention and efforts were directed to the extrication of the vessel with a view to her voyage northward, in which direction alone they could now hope to discover a passage to the western sea. But month after month rolled on, the height of summer passed, and the sea remained still bound in icy chains. In August its aspect began to present hopes, but these were followed by successive disappointments. Its close arrived, and they had the mortification to reflect that they had remained eleven months — a period in which they might have circumnavigated the globe — fixed to that dreary spot.

At last, on the 17th of September, with a transport of joy, they found themselves free, and the ship, so long immovable, again buoyant on the waves. They advanced about three miles, when, encountering a ridge of ice, they made fast to one of its extremities, in a tolerably secure position between two bergs. On the 23d they were completely frozen in, and by the 30th the sea exhibited one unbroken surface. The greater part of October was employed in laboriously sawing their way through the ice, the thickness of which was always increasing; and they were at length obliged to desist, after reaching a spot not exactly such as could be wished, but which, amid an ocean immovable on every side, afforded tolerable protection.

Another dreary winter having now set in, it became necessary to look narrowly into the stock of provisions. A certain reduction in the daily allowance was found requisite, leaving, at the same time, enough to maintain the crew in health and vigor, which they continued to preserve uninterruptedly during the season. They felt, however, the utter monotony of their situation pressing upon them with increasing severity; they began almost to envy the Esquimaux, to whom eating and sleeping constituted the whole of existence. In this manner passed 1830; nor was it till April of the following year that excursions of any extent could be undertaken over the frozen surface of land and sea.

The first adventure of this kind was conducted by Commander Ross. One interesting circumstance in his excursion was the discovery of the north magnetic pole; the situation of which on the land of Boothia is marked on the circular map attached to this volume. "The place of the observatory," he remarks, was as near to the magnetic pole as the limited means which I possessed enabled me to determine. The amount of the

dip, as indicated by my dipping-needle, was  $89^{\circ} 59'$ , being thus within one minute of the vertical; while the proximity, at least, of this pole, if not its actual existence where we stood, was further confirmed by the action, or, rather, by the total inaction, of the several horizontal needles then in my possession." This was very nearly the position assigned to it by scientific men several years earlier, and arrived at by protracting the direction lines of compass-needles in various circumjacent latitudes, till they met in a central point. Parry's observations placed it eleven minutes distant only from the site determined by Ross.

"As soon," says the latter, "as I had satisfied my own mind on the subject, I made known to the party this gratifying result of all our joint labors; and it was then that, amidst mutual congratulations, we fixed the British flag on the spot, and took possession of the North Magnetic Pole and its adjoining territory in the name of Great Britain and King William IV. We had abundance of materials for building in the fragments of limestone that covered the beach, and we therefore erected a cairn of some magnitude, under which we buried a canister containing a record of the interesting fact, only regretting that we had not the means of constructing a pyramid of more importance, and of strength sufficient to withstand the assaults of time and of the Esquimaux. Had it been a pyramid as large as that of Cheops, I am not quite sure that it would have done more than satisfy our ambition, under the feelings of that exciting day. The latitude of this spot is  $70^{\circ} 5' 17''$ , and its longitude  $96^{\circ} 46' 45''$  west."

Even if the pole were stationary, this determination could only be regarded as approximate; but when we know that the centre of magnetic intensity is a movable point, we shall readily understand that the cairn erected

with so much enthusiasm can now only show where it was. According to Hansteen, the pole moves 11' 4" every year, and revolves within the frigid zone in 1890 years, so that it will not reach the same spot in Boothia until the year 3722 ! The precise determination of this point, however, is said to be comparatively unimportant, because its position can always be ascertained by observations of the compass and dipping-needles.

As soon as Commander Ross and his party returned, it was thought time, amid alternate hopes and fears, to watch the progress of the ice, and escape, if possible, from the prison of a third dreary winter. The season was not, on the whole, more favorable than that of 1830 ; yet, on the 28th August, a somewhat earlier period, they contrived to warp out into the open sea, and on the morning of the 29th were in full sail. But they were baffled by changes of wind and heavy gales. On the 14th of September they could again take exercise by skating on the newly-formed ice. On the 27th they found themselves completely fixed for a third winter. Their last year's navigation had been three miles — this season it was extended to four !

The spirits of the adventurers now began to droop in earnest. Their only means of escape seemed to be to proceed in the boats, or draw them over the ice to the wreck of the *Fury*, when, after supplying themselves with a fresh stock of provisions out of her stores, they might reach Davis's Straits, and be taken up by a whale-ship. In November the scurvy began to appear. The extraordinary exemption hitherto enjoyed from this dreadful malady, in the absence of the grand specific of vegetable food, Ross is inclined to ascribe to the abundance with which the men were supplied with water, notwithstanding the quantity of fuel requisite to melt the snow ; to their never having been too long at once

exposed to cold, and to the care that was taken not to allow them to remain in their wet clothes.

It was now determined to abandon the *Victory*, and move away to Fury Beach, as early in the spring as travelling should be practicable. The beach was one hundred and eighty miles distant in a direct line, and three hundred by the necessary windings. They set out on the 23d of April, 1832, on the first part of their expedition. The loads being too heavy to be carried at once, made it necessary to go back and forward twice, and even oftener, the same day. They had to encounter dreadful tempests of snow and drift, and to make circuits, in order to avoid impassable barriers. The general result was, that by the 21st May they had travelled three hundred and twenty-nine miles to gain thirty in a direct line, having in this labor expended a month.

After this preliminary movement, they returned to the ship, of which they were soon to take a final leave. On the 29th of May they hoisted the colors, nailed them to the mast, and drank a parting glass to the *Victory*, which they considered worthy of a better fate. In a few days they reached their former deposit; and the men, extremely exhausted, were anxious to leave the boats and spare provisions, and push on to Fury Beach. The captain, however, considered it indispensable to carry these to the other side of Elizabeth Harbor, as the nearest spot to which there was full security of being able to return. The 9th of June arrived before everything was brought forward to that point. It was soon after arranged that his nephew and two others should set forward as a light party, with a fortnight's provisions, to ascertain the state of the supplies, and then return with their report to the main body, who



were to proceed by slower marches, but more heavily loaded.

On this laborious journey Ross had an opportunity of examining the coast, and ascertaining that the large inlet in Brentford Bay was formed merely by a river, and could afford no passage to the western sea. On the 25th of June he met the advanced party, who reported that they had found three of the boats washed away, but enough still left for their purpose, and all the provisions in good condition. On the 1st of July the whole crew reached their destination. They immediately enjoyed a hearty meal, and soon reared a canvas mansion, which they named Somerset House.

The month of July was spent in fitting out the boats, which were ready by the 1st of August, when there appeared a considerable extent of open sea, cheering them with the hope of being able to penetrate through Barrow's Strait into Baffin's Bay. The voyage, however, proved very difficult; masses of ice, still tossing amid the waves, placed them sometimes in dangerous positions; and, when they sought shelter on the beach, it was mostly bordered by lofty, precipitous cliffs, from which, at this season of thaw, fragments were often detached, one of which might have crushed them to pieces. It was the 29th of August before they passed Cape Seppings, and arrived at the junction between Prince Regent's Inlet and Barrow's Strait. After several attempts to run along the latter, rendered fruitless by the ice, they were obliged to haul the boats on shore and pitch their tents. There was still time to have accomplished their object; but repeated surveys from the neighboring mountains convinced them that Barrow's Strait was now, and had been during the whole summer, an impenetrable mass.

By the 24th of September all were agreed that no

choice was left but to return to Fury Beach, and there spend their fourth Arctic winter. Proceeding, therefore, in the boats, on the 30th of September they reached Batty Bay, more than half the distance; but the ice rendering it impossible to sail further, they hauled them on shore, and left them above high-water mark. Then, carrying the provisions on sledges, and making a somewhat difficult journey, they arrived, on the 7th of October, at what they now accounted their home.

The party suffered, at first, a good deal from cold, against which their canvas covering afforded very imperfect shelter. They contrived, however, to envelop it in a wall of snow, and set up an additional stove, which was so effectual that the heat of  $51^{\circ}$  could be maintained within. It was necessary to make a reduction in the allowance of preserved meats; bread was somewhat deficient; and the stock of wine and spirits was entirely exhausted. However, as they had caught a few foxes, which were considered a delicacy, and there was plenty of flour, sugar, soups, and vegetables, a diet could be easily arranged sufficient to maintain the party in health and vigor.

The winter, as it advanced, proved one of great severity; and, when the cold reached its utmost rigor, their slight walls could no longer keep the mansion in a comfortable heat. The tempestuous weather made it impossible to take exercise in the open air; and at length their patience appears to have been wearied out by this long and dreary imprisonment within the Arctic wastes. On the 16th of February, 1833, Thomas, the carpenter, died of scurvy — an event deeply regretted in itself, and regarded as a warning of what was too likely to befall the rest. Several of the seamen, in fact, became affected with this cruel disease, of which Ross himself felt the

sure approach, by the return of pain in his old wounds. Their situation was becoming truly awful ; since, if they were not liberated in the ensuing summer, little prospect appeared of their surviving another year.

In April and May, as soon as it was possible to travel, while yet the ice remained firm, it was necessary to carry forward an ample stock of provisions to the position of the boats, and there await the opportunities of release. Though the distance was only thirty-two miles, their reduced numbers, and the weight of the loads, obliged them to go over the same ground eight times, raising the space actually traversed to two hundred and fifty-six miles ; so that it afforded laborious employment for a whole month. They then returned to Somerset House, where they remained till the 8th of July, on which day the whole party quitted, without regret, this dreary home, and, though much encumbered by the transport of the sick, arrived, on the 12th, at their boat-station in Batty Bay.

The aspect of the sea was now watched with intense anxiety, not unmingled with dread ; yet the very habit of observing and of speculating on their prospects — some daily mounting the neighboring hill, and others reviewing their report — kept their spirits in a state of salutary activity. The pursuit of feathered game, which always afforded the hope, and sometimes the reality, of a good supper, also enlivened their time. A month was passed in vain expectation ; when, at length, on the evening of the 14th of August, a lane of water appeared, leading to the northward. Next morning the seamen were in movement at an early hour ; and, having cleared the shore of the ice that obstructed it, they embarked the provisions and stores, and by eight o'clock were under way, with a favorable wind.

At midnight they passed Elwin's Bay, and on the

16th had come to the furthest point reached in the preceding year, a spot which excited some painful recollections. However, though all passage to the east was closed, there was still an open lane by which they could proceed northwards. In the evening of that day they were at the north-eastern point of America, and beheld the sea in that direction quite navigable, though encumbered with ice. At three in the morning of the 17th they were in motion, making their way through the loose pieces, till, favored by a southern breeze, they turned the point of the solid mass which obstructed the inlet, and saw the wide expanse of Barrow's Strait open before them. Wafted on as if by magic, they reached the opposite shore, which they sailed along to within twelve miles of Cape York, having made in this day seventy-two miles. In the two following they passed Admiralty Inlet, and came within six or seven miles of that called Navy Board; after which they were detained four days by contrary winds, and obliged to reduce their allowance of provisions. On the 25th, however, they could again use their oars, and reached the eastern side of Navy Board Inlet, where they found a good harbor for the night.

At four in the morning of the 26th they were roused from sleep by the look-out man announcing "a sail," which, viewed through a glass, proved evidently to be a ship. All were presently in motion, and their hopes and fears were variously expressed. But they were detained by calms and light shifting airs; and, a breeze springing up, the vessel made sail with a rapidity which left them hopelessly behind. About ten, however, they descried another, which seemed to be lying to; but she, also, soon bore up under all sail, and appeared to be fast leaving them. Happily, a calm succeeded; and, by hard rowing, they approached so near that their sig-

nals were perceived, when she was seen to heave to and lower a boat, which made directly towards them.

On its arrival, the mate in command asked if they were in distress and had lost their vessel, proffering his aid, stating, in answer to their inquiries, that he belonged to the *Isabella*, of Hull, once commanded by Captain Ross, now by Captain Humphreys. On being told that the former person stood before him, his brain was so puzzled that he declared the captain must be under a mistake, as he had certainly been dead two years. When satisfied, however, of the contrary, and that he was in the presence of the long-absent navigator, he offered his hearty congratulations.

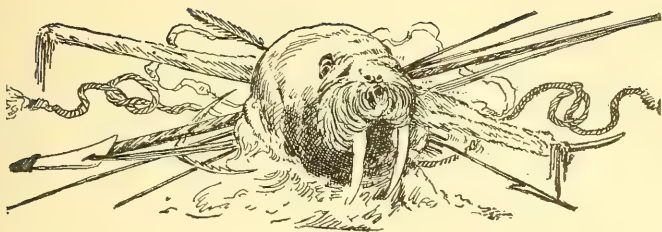
Such was the effect of previous hardship, that few of Ross's men could sleep on a bed; and some time was necessary to enable them to enjoy this and other accommodations of ordinary life.

On the 30th of September, 1833, the *Isabella* left Davis's Straits, and on the 11th of October reached Stromness, in Orkney. On Ross's landing at Hull, on the 18th, such crowds were attracted that he could with difficulty reach the inn. He proceeded next day to London, and, having reported himself to the Admiralty, was presented, on the morrow, to his majesty at Windsor.



THE PTARMIGAN.





## CHAPTER X.

BACK'S LAND EXPEDITION. — ARRIVAL AT FORT WILLIAM. — ANECDOTE OF A CANOE PARTY. — FRANKLIN. — SCENERY. — ASCENT OF RIVERS. — AYLMER LAKE. — WINTER QUARTERS. — STARVING INDIANS. — INTENSE COLD. — NEWS OF ROSS'S SAFETY. — EXPERT CANOE-MAN. — ESQUIMAUX FRIENDS. — THE THLEW-EE-CHOH. — THE POLAR SEA. — RETURN TO ENGLAND. — BACK'S VOYAGE IN THE TERROR. — REMARKABLE PERILS AMONG THE ICE. — HOMEWARD BOUND. — DEASE AND SIMPSON'S DISCOVERIES.

Ross's protracted stay of four years in the inhospitable north induced the government to send out an expedition to look for the absent party. Back, who was then in Italy, hurried home to volunteer his services ; his offer was accepted ; and with Dr. King, surgeon and naturalist, he left England in February, 1833. At Montreal he engaged three artillery-men and some voyageurs, and embarked on the St. Lawrence in two canoes. At the Sault de Ste Mary, on the 11th of May, they purchased a third canoe, and commenced coasting along the northern shores of Lake Superior. On the 20th they arrived at the Hudson's Bay Company's establishment, Fort William.

Passing the height of land which separates the waters which flow into Lake Superior from those which enter Hudson's Bay, the three canoes proceeded rapidly on their ever-changing and romantic route, at times dashing down rapids, then crossing small lakes, or making slow progress along small and shallow rivers, so that portages were often necessary.

It is related by Back, that, not many years ago, a canoe was pursuing its way quietly down one of the streams through which the Arctic exploring party was now passing. It was approaching one of the many portages with which these streams abound, and the bowman and steersman were standing erect at stem and stern, casting quick glances ahead and on either side as they neared the waterfall which obstructed their progress. The approach to the landing-place was somewhat difficult, owing to a point of rocks which projected into the stream, in the direction of the fall, and round which point it was necessary to steer with some dexterity, in order to avoid being drawn into the strong current. The fearless guides, however, had often passed the place in former years in safety, and, accordingly, dashed at the point with reckless indifference, their paddles flinging a circle of spray over their heads, as they changed them from side to side, with graceful but vigorous rapidity. The swift stream carried them quickly round the point of danger, and they had almost reached the quiet eddy near the landing-place, when the stem of the canoe was caught by the stream, which in an instant whirled them out from the shore, and carried them downwards with fearful rapidity. Another moment, and the gushing waters dragged them, despite their most frantic efforts, to the verge of the waterfall, which thundered and foamed among frightful chasms and rocks many feet below. The stem of the canoe overhung the abyss, and now the *voyageurs* plied their paddles with the desperation of men who felt that their lives depended on the exertions of that terrible minute. For a second or two the canoe remained stationary, and seemed to tremble on the brink of destruction; and then, inch by inch, it began slowly to ascend the stream. The danger was past! A few more nervous strokes,



A FALL THROUGH A CREVASSE.



and the trembling bark shot like an arrow out of the current, and floated in safety on the still water under the point. The whole thing, from beginning to end, was the work of a few seconds; yet who can describe or comprehend the tumultuous gush of feelings created, during these short seconds, in the bosoms of the careless *voyageurs*? The sudden, electric change from tranquil safety to the verge of almost certain destruction — and then — deliverance!

On the 6th of June the canoes arrived at Fort Alexander — situated at the southern extremity of Lake Winnipeg. Here Back remained a few days, to await the arrival of Governor Simpson. During this period he and Mr. King made some observations on the dip of the needle, while the men busied themselves in unpacking and drying the provisions and packages.

The mosquitos here were very numerous and annoying. Of the sand-flies, near the lakes, Back says, that even the Indians do not contrive any way of escaping this tormenting insect. Their usual mode is to throw themselves on their faces to the ground, and to moan with pain. Back thought of killing them by smoke; upon which Maufelly, his interpreter, expressed surprise that he “should be so unlike the *old chief*, who would not destroy a single mosquito.” By the “old chief” was meant Sir John Franklin, of whom Back says: “It was his custom never to kill a fly; and, though teased by them beyond expression, especially when engaged in taking observations, he would quietly desist from his work, and patiently blow the half-gorged intruders from his hands: ‘the world was wide enough for both.’”

Leaving Fort Alexander on the 11th of June, Back coasted Lake Winnipeg, toward Norway House, where he arrived on the 17th. Here he obtained the requisite number of *voyageurs* and attendants, amounting to



eighteen in all ; and, in high spirits, they started for their winter quarters on the eastern shore of Great Slave Lake.

On the 21st of July they arrived at Portage La Loche, the high ridge of land which divides the waters running into Hudson's Bay from those flowing into the Arctic Ocean. Here they had to carry their canoe and baggage over the ridge, a distance of fourteen miles — a tedious labor, which consumed eight days.

Of the scenery at this place Mr. King says: " Within a mile of the termination of the portage, a most extensive and magnificent scene burst upon our view, and we discovered ourselves, through an opening in the trees, to be on a hill upwards of a thousand feet high, and at the brink of a tremendous precipice. We were certainly prepared to expect an extensive prospect, but the beautiful landscape before us was far superior to anything that could be anticipated from the nature of the country we had hitherto seen. At a depth of two hundred fathoms below the summit on which we stood, the Clear Water River was to be seen winding its serpentine course in beautiful meanders for thirty miles, broken here and there, and interrupted by intervening woods ; while

——' the tall pines dwindled as to shrubs,  
In dizziness of distance !'

" The valley, at once refreshed and adorned by the smooth pellucid stream, was embanked by two parallel chains of hills extending towards the west, till it became lost in the purple hue of distance. The inclining heights, here and there covered with stately forests, and occasionally interspersed with barren spots or promontories of the most luxuriant verdure, were beautifully contrasted

with the icinerated tinge which overspread vast tracts of country where once the dense forests had been consumed by fire."

The party arrived at Fort Chipewyan the 29th of July; at Fort Resolution, on Great Slave Lake, the 8th of August. Here, having obtained all possible information from the Indians relative to the course of the northern rivers of which he was in search, he divided his men into two parties, five being left as an escort for Mr. McLeod, and four being appointed to accompany himself in search of the Thlew-ee-choh or Great Fish River, since named after Back himself.

On the 19th of August, Back and his men began the ascent of the Hoar Frost River. Its course was a series of the most fearful cascades and rapids. Almost impervious woods of stunted firs, bogs, and swamps, occasioned great trouble to the party. They arrived, at length, in an open space, where the scene was one of barrenness and desolation: crag was piled upon crag to the height of two thousand feet from the base, and the course of the river here, in a state of contraction, was marked by an uninterrupted line of foam.

Rapid now succeeded rapid; scarcely had the party surmounted one fall than another presented itself, rising like an amphitheatre before them to the height of fifty feet. They, however, gained at length the ascent of this turbulent and unfriendly river, the romantic beauty and wild scenery of which were very remarkable; and, after passing successively a series of portages, rapids, falls, lakes, and rivers, on the 27th Back observed from the summit of a high hill a very large lake, full of deep bays and islands, and which has been named Aylmer Lake, after the Governor-General of Canada at that time. The boat was sent out, with three men, to search for the lake, or outlet of the river which they discov-

ered on the second day, and Back himself, during their absence, also accidentally discovered its source in the Sand Hill Lake, not far from his encampment. Yielding to that pleasurable emotion which discoverers, in the first bound of their transport, may be pardoned for indulging, Back threw himself down on the bank, and drank a hearty draught of the limpid water.

On the 30th of August they began to move toward the river, but, on reaching Musk-ox Lake, it was found impossible to stand the force of the rapids in their frail canoe, and, as winter was approaching, their return to the rendezvous on Slave Lake was determined on. At Clinton Colden Lake some Indians visited them from the chief Akaitcho, who had been a guide of Sir John Franklin. Two of these Indians remembered Back, one having accompanied him to the Coppermine River on Franklin's first expedition. At the Cat or Artillery Lake they had to abandon their canoe, and perform the rest of the journey on foot over precipitous rocks, through frightful gorges and ravines, heaped with masses of granite, and along narrow ledges, where a false step would have been fatal. At Fort Reliance the party found Mr. McLeod had, during their absence, erected the frame-work of a comfortable residence for them, and all hands set to work to complete it. After many obstacles and difficulties, it was finished. Dr. King joined them on the 16th of September, with two laden batteaux.

On the 5th of November they exchanged their cold tents for the new house, which was fifty feet long by thirty broad, and contained four rooms, besides a spacious hall in the centre, for the reception and accommodation of the Indians, to which a sort of rude kitchen was attached.

An observatory was constructed at a short distance,

wherein certain mysterious and complicated instruments were fixed and erected ; iron in all forms being carefully excluded, and a fence run round it to guard it more effectually from the men, as they walked about with their guns, ice-chisels, and axes. Here Back and Mr. King used to sit in solemn conclave for many an hour during the winter, closely observing the various interesting phenomena of earth and sky ; and awfully mysterious did this building appear to the simple Indians and voyageurs. They would approach as near as they dared, and, with their arms folded, brows knit, and heads down, would stand for hours wondering at the dead silence of its occupants, broken only at long intervals by such exclamations as "now" — "stop" — insomuch that they at last, after very mature and grave deliberation, came to the conclusion that they were "raising the devil !"

As the winter advanced bands of starving Indians continued to arrive, in the hope of obtaining some relief, as little or nothing was to be procured by hunting. They would stand around while the men were taking their meals, watching every mouthful with the most longing, imploring look, but yet never uttering a complaint.

At other times they would, seated round the fire, occupy themselves in roasting and devouring small bits of their reindeer garments, which, even when entire, afforded them a very insufficient protection against a temperature of 102° below freezing point.

The sufferings of the poor Indians at this period are described as frightful. "Famine, with her gaunt and bony arm," says Back, "pursued them at every turn, withered their energies, and strewed them lifeless on the cold bosom of the snow." It was impossible to afford relief out of their scanty store to all, but ever small portions of the mouldy pemmican intended for

the dogs, unpalatable as it was, were gladly received, and saved many from perishing. "Often," adds Back, "did I share my own plate with the children, whose helpless state and piteous cries were peculiarly distressing. Compassion for the full-grown may or may not be felt, but that heart must be cased in steel which is insensible to the cry of a child for food."

To add to the distress of Back, he received information that his friend Augustus, the affectionate Esquimaux interpreter who had accompanied him on a former journey, hearing of his being again in the country, set out from Hudson's Bay, in company with a Canadian and an Iroquois; they lost their way, were separated, and poor Augustus fell a sacrifice to famine. His remains were found on the barrens not far from the Rivière à Jean. It appeared that the gallant little fellow was retracing his steps to the establishment, when, either exhausted by suffering and privation, or caught in the midst of an open traverse in one of those terrible snow-storms, which may be almost said to blow through the frame, he had sunk to rise no more. "Such," says Back, "was the miserable end of poor Augustus! a faithful, disinterested, kind-hearted creature, who had won the regard, not of myself only, but, I may add, of Sir John Franklin and Dr. Richardson also, by qualities which, wherever found, in the lowest as in the highest forms of social life, are the ornament and charm of humanity."

At this critical juncture, Akaitcho made his appearance with an opportune supply of a little meat, which in some measure enabled Back to relieve the sufferers around him, many of whom, to his great delight, went away with Akaitcho. The stock of meat was soon exhausted, and they had to open their pemmican. The officers contented themselves with the short supply of half a pound a day, but the laboring men could not do



with less than a pound and three quarters. The cold now set in with an intensity which Back had never before experienced, — the thermometer, on the 17th of January, being 70° below zero. "Such, indeed," he says, "was the abstraction of heat, that, with eight large logs of dry wood on the fire, I could not get the thermometer higher than 12° below zero. Ink and paint froze. The sextant cases and boxes of seasoned wood, principally fir, all split. The skin of the hands became dry, cracked, and opened into unsightly and smarting gashes, which we were obliged to anoint with grease. On one occasion, after washing my face within three feet of the fire, my hair was actually clotted with ice before I had time to dry it."

The hunters suffered severely from the intensity of the cold, and compared the sensation of handling their guns to that of touching red-hot iron; and so excessive was the pain, that they were obliged to wrap thongs of leather round the triggers, to keep their fingers from coming into contact with the steel.

The sufferings which the party now endured were great, and, had it not been for the exemplary conduct of Akaitcho in procuring them game, it is to be doubted whether any would have survived to tell the misery they had endured. The sentiments of this worthy savage were nobly expressed — "The great chief trusts in us, and it is better that ten Indians perish than that one white man should perish through our negligence and breach of faith."

About the middle of April preparations were begun for their intended journey to the sea-coast; but on the 25th a messenger arrived bringing to Back the welcome intelligence of the safety of Ross and his party. His feelings at this news are thus described: "In the fulness of our hearts, we assembled, and humbly offered

up our thanks to that merciful Providence which, in the beautiful language of Scripture, hath said, 'Mine own will I bring again, as I did sometime from the deeps of the sea.' "

On the 7th of June, Back and Mr. King left Fort Reliance for the Polar Sea. Their boat, thirty feet long, was placed on runners, and dragged over the yet unmelted ice of the lakes and swamps. A singular fact in regard to temperature is mentioned. About the end of May, just before they set out, the weather was sultry, the temperature in the sun being 106°! an extraordinary contrast to that of January 17th, when it was 70° below zero. They now experienced some cold and foggy weather. McLeod, with a party of Indians, was sent on ahead to hunt and make *caches* of the meat, to be picked up as the main party behind came up to them.

On the 28th of June they were fairly launched on the head waters of the Thlew-ee-choh. From this time till their approach to the sea, a constant succession of falls, and rapids, and cataracts, more or less obstructed their progress, and, as Back says, "made him hold his breath, expecting to see the boat dashed to shivers against some protruding rocks amid the foam and fury at the foot of a rapid." In passing down one of these, where the river was full of large rocks and bowlders, the boat was obliged to be lightened; and Back says, "I stood on a high rock, with an anxious heart, to see her run it. Away they went with the speed of an arrow, and in a moment the foam and rocks hid them from my view. I heard what sounded in my ear like a wild shriek; I followed with an agitation which may be conceived, and, to my inexpressible joy, found that the shriek was the triumphant whoop of the crew, who had landed safely in a small bay below." In short, strong and heavy

rapids, with falls and whirlpools, kept the men, for eighty or ninety miles, in a constant state of exertion and anxiety.

He gives an instance, on one occasion, of the consummate skill of De Charloit, a half-breed canoe-man, who "ran our rickety and shattered canoe down four successive rapids, which, under less able management, would have whirled it, and everybody in it, to certain destruction. Nothing could exceed the self-possession and nicety of judgment with which he guided the frail thing along the narrow line between the high waves of the torrent and the returning eddy. A foot in either direction would have been fatal; but, with the most perfect ease, and, I may add, elegant and graceful action, his keen eyes fixed upon the *run*, he kept her true to her course through all its rapid windings."

On the 13th of July a glimpse of sunshine tempted the captain to halt for the purpose of taking observations; and, while he was thus engaged, the men were permitted to scour the country in pursuit of deer and musk-oxen, which literally swarmed in the barren grounds. The hunters soon returned with four fine bucks, which afforded them an agreeable change from the customary meal of pemmican.

The latitude was  $65^{\circ} 38' 21''$  N., and longitude  $106^{\circ} 35' 23''$  W. At this place the river began to take an easterly bend, which perplexed them much; causing great anxiety as to whether it would ultimately lead them to the Frozen Sea, or terminate in Hudson's Bay. In any case, they had nothing for it but to push on; and their labors were rewarded by their finding that the river trended again in a northerly direction, and their hopes were further increased by the discovery, on the 16th of July, of some old Esquimaux encampments. Once, indeed, they thought they saw tents of the Esqui-

maux ahead ; but, on a nearer approach, they turned out to be some luxuriant clumps of willows, which were inhabited by thousands of geese, which had selected the spot as convenient for the operation of casting their feathers. Thousands upon thousands of the most excellent quills were found scattered over the sand. A curious feature in this part of the country was the number of huge boulder-stones, not only in the river, but on the very pinnacles of the highest hills.

On the 28th of July they met the first Esquimaux, who, as usual on their first seeing Europeans, exhibited consternation by shouts, yells, antics, and gesticulations ; under the impression, apparently, that by so doing they would frighten their new visitors away. The boat continued to approach the shore, despite the brandishing of spears and other belligerent demonstrations ; whereupon the whole nation formed in a semi-circle round the spot where the boat grounded, and stood on the defensive. Back, however, soon established friendly relations with them, by walking boldly up, unarmed, and alone, at the same time calling out *Tima*—peace—with great emphasis, tossing up his arms in true Esquimaux style, and, finally, shaking hands all round. This quieted them, and they soon mingled with the men, from whom they received a few buttons with great delight.

A portage had to be made at this place, and the Esquimaux here aided them in transporting their boats, to which Back's party were wholly unequal ; so that to the natives he was indebted for getting to the sea at all.

On the 29th of July, while threading their course between some sand-banks, with a strong current, they first caught sight of a majestic headland in the extreme distance to the north, which had a coast-like appearance.

This important promontory Back subsequently named Victoria. "This, then," observes Back, "may be considered as the mouth of the Thlew-ee-choh, which, after a violent and tortuous course of five hundred and thirty geographical miles, running through an iron-ribbed country, without a single tree on the whole line of its banks, expanding into five large lakes, with clear horizon, most embarrassing to the navigator, and broken into falls, cascades, and rapids, to the number of eighty-three in the whole, pours its water into the Polar Sea, in lat.  $67^{\circ} 11'$  N., and long.  $94^{\circ} 30'$  W., that is to say, about thirty-seven miles more south than the mouth of the Coppermine River, and nineteen miles more south than that of Back's River, at the lower extremity of Bathurst's Inlet."

For several days Back was able to make but slow progress along the eastern shore, in consequence of the solid body of drift-ice. A barren, rocky elevation of eight hundred feet high was named Cape Beaufort. A bluff point on the eastern side of the estuary, which he considered to be the northern extreme, he named Cape Hay. Dease and Simpson, however, in 1839, traced the shore much beyond this. The difficulties met with here began to dispirit the men. They were almost without water, without any means of warmth, or any kind of warm or comforting food, and sinking knee-deep, as they proceeded on land, in the soft slush and snow. So damp was the weather that for ten days, while encamped on Montreal Island, they could not light a spark of fire, or obtain a warm meal.

The low, flat country was the picture of desolation. "It was one irregular plain of sand and stones; and, had it not been for a rill of water, the meandering of which relieved the monotony of the sterile scene, one might have fancied one's self in one of the parched



plains of the East, rather than on the shores of the Arctic Sea."

With unflinching ardor did Back push forward, in the hope of reaching a more open sea, and connecting their discoveries with those of Captain Franklin at Point Turnagain. On the 7th of August they reached the extreme point of land which terminates the wide mouth of the river, and whence the coast trends to the westward. This was named Point Ogle, and another cape, seen far to the west, was named Point Richardson. Several portions of the coast of Boothia Felix were also seen in the distance to the northward. Here they were completely baffled in every attempt to advance. Back sent, however, a small party to the westward to trace the coast, which was all that could be done; but they were only able to follow the shore about fifteen miles. The surface was level, and void of vegetation. They found; however, several pieces of drift-wood, one of which was nine feet long and nine inches in diameter, which the men jocularly called "a piece of the north pole."

Back now resolved to retrace his steps. Before doing so, however, the British flag was unfurled, and the land taken possession of, with three enthusiastic cheers, in the name of His Majesty William IV. The latitude of the place was  $68^{\circ} 13' 57''$  N., longitude  $94^{\circ} 58' 1''$  W.

In the middle of August they left the cold precincts of the Arctic Sea. In retracing his route Back ascended the high grounds which divide the northern from the southern streams. The Aylmer, the Artillery, and the Clinton Colden Lakes embellish the landscape, and discharge their waters into the Great Slave Lake. Here he found a splendid cascade, of which he says: "The color of the water varied from a very light to a

very dark green ; and the spray, which spread a dimness above, was thrown up in clouds of light gray. Niagara, Wilberforce's Falls in Hood's River, the falls of Kakabikka, near Lake Superior, the Swiss or Italian falls, although they may each 'charm the eye with dread,' are not to be compared to this for splendor of effect. It was the most imposing spectacle I had ever witnessed ; and, as its berg-like appearance brought to mind associations of another scene, I bestowed upon it the name of our celebrated navigator, Sir Edward Parry, and called it Parry's Falls."

Of the Indians, Back gives, in his narrative, some interesting anecdotes.

Once, speaking with the Camarade de Mandeville, a potent Chipewyan chief, regarding the due observance of certain moral precepts for his future guidance, the chief listened with most profound attention and gravity. When Back had concluded, he raised his head a little, and, with eyes fixed on the floor, said, in a low and solemn tone, "The chief's words have sunk deep into my heart, and I shall often think of them when I am alone. It is true that I am ignorant ; but I never lie down at night in my lodge without whispering to the Great Spirit a prayer for forgiveness, if I have done anything wrong that day."

On the 17th of September the return party met Mr. McLeod, according to appointment, at Sandy-Hill Bay. He had long been expecting them, and had spent many an anxious hour in watching the distant objects in the direction of their route. With this gentleman they returned to Fort Reliance, where they arrived on the 27th, "after an absence of nearly four months ; tired, indeed, but well in health, and truly grateful for the manifold mercies we had experienced in the course of our long and perilous journey."

Preparations were soon set on foot to spend another winter in the wilderness. Once more the woods resounded with the woodman's axe, and the little rooms glowed with the blazing fires of wood. Again the nets were set and the guns loaded, and the white man and the red ranged the woods in company ; while Back and Mr. King found ample and interesting occupation in mapping their discoveries and writing their journals. On the 28th of May, 1835, Back bade adieu to the polar regions, and returned to England, where he arrived on the 8th of September, after an absence of two years and seven months.

This was not the last of Back's labors. In 1836, at the instance of the Geographical Society, the British government equipped an expedition to complete the discovery of the coast-line between Regent's Inlet and Point Turnagain. The ship *Terror* was set apart for the service ; and Captain Back, just returned from his great land journey, was appointed to the command.

The *Terror* left Chatham on the 14th of June, 1836. On the 29th of July, when a good way across the mouth of Davis's Straits, she came first in view of the ice. The quantity of it was great, and one enormous berg presented a vertical face of not less than three hundred feet in height. Occasional clear and pleasant runs were afterwards made, but, in general, the obstructions were incessant and tremendous. And, so early as from the 1st to the 3d of August, when the ship was near the vexed and foggy shores of Resolution Island, she had to bore and manœuvre her way among dense flocs, high packs, and surging whirlpools.

On the 8th of August she was moored to a large ice-berg for protection from a gale. But the berg looked dangerous, and was anxiously watched by the officers, lest it should capsize and overwhelm them. Early

next morning it was violently struck on the weather-side by a heavy drifting floe, and for some minutes it rocked and oscillated in awful menace of an overturn ; but a large piece fell with a splash into the sea from one of its corners, and providentially restored the equilibrium.

On the 14th of August the Terror entered the narrows between Salisbury Island and the north coast. A resolution was now taken to steer for the Frozen Strait. The course for four days continued to be severe, yet afforded considerable promise. But, on the 18th, after the ship had worked for some time in only one hole of water, she was arrested by a dense unbroken pack, of fearful extent and most wildly rugged surface. Yet the ship pushed boldly into it, and very soon, to the surprise and joy of all, the stupendous mass went asunder, and disclosed a path through what seemed an impenetrable barrier.

On the 23d of August they sighted Baffin Island, which flanks the north side of the entrance of the Frozen Strait. But they found not a channel or a water-lane, even of the width of a brook, to invite them on. The scene everywhere around was a tumulated sea of ice, without one break, without one cheering feature, and with a surface so rough, and heaved, and peaked, that no human being could have travelled on it for more than a very brief distance. They all but abandoned expectation of ever getting into the Frozen Strait, and were now glad to attempt to work their way toward Southampton Island. They warped and bored, and spent many an hour in feverish excitement. On the 25th they made some little distance through a slack ; but at sunset they were stopped near an extensive floe, where, from the effects of pressure, some ponderous masses, not unlike the blocks of a Titanian ruin, had been heaped

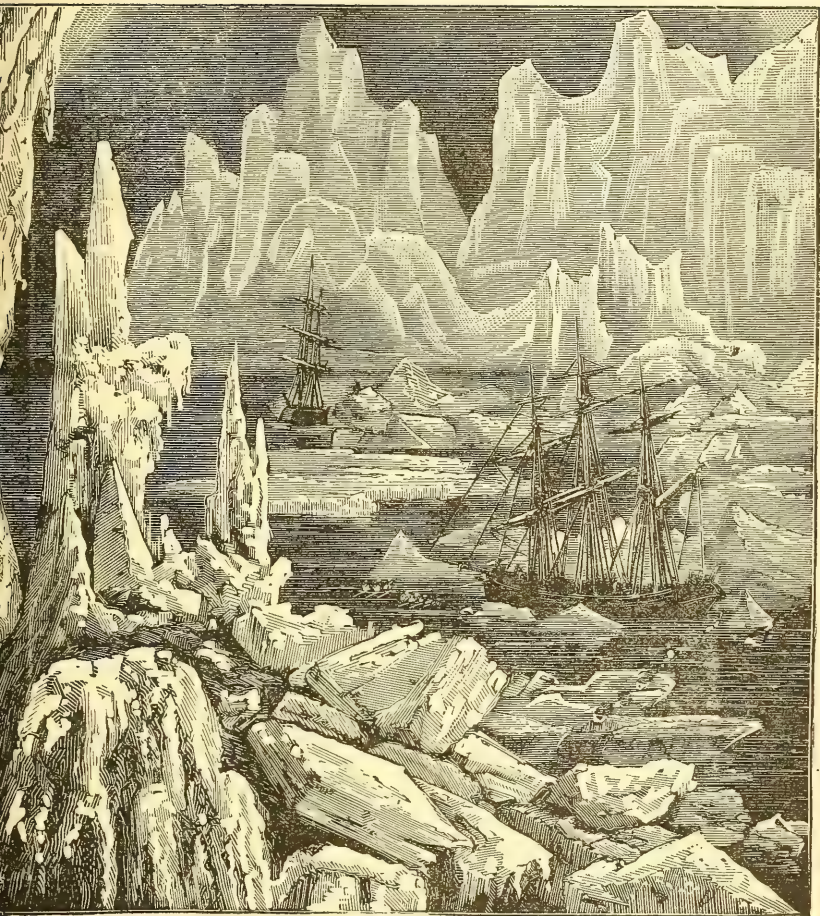
up to the height of thirty feet. "The land, blue from distance, and beautifully soft as contrasted with the white cold glare of the interminable ice around, reflecting by the setting sun the tints of the intervening masses thrown into the most picturesque groups and forms, spires, turrets, and pyramids, many in deep shade, presented altogether a scene sufficient for a time to cheat the imagination, and withdraw the mind from the cheerless reality of their situation."

On the 5th of September, when they were firmly fixed about sixteen miles from Southampton Island, and saw some tempting lanes of water at no great distance, they fell to the spirited task of cutting a way through the ice by mechanical force. All the ship's company, officers and men, seized axes, ice-chisels, hand-pikes, and long poles, and vied with one another in driving the blocks asunder, and in driving them away to the nearest pool. They at length succeeded in setting the ship free, and got her into a run of several miles toward the land; but so early as next morning, they were once more "in a fix." High winds and foul weather at the same time came on, and seriously bewildered them, yet, on the whole, did them good service, by driving them slowly toward the shore.

On the 14th of September, within about four miles of the Cape Comfort of Baffin, the ship became severely "nipped." A violent, agitative, landward motion pressed all the surrounding ice into the utmost possible compactness, raised much of it into ponderous pointed heaps of twenty feet and upwards in height, and jammed the ship with perilous tightness between the nearest masses.

The hapless ship was for many days drifted backward and forward along the coast, and away from it, over a range of about thirty miles, just as the wind or the cur-





THE MIDNIGHT SUN.



rent or the tide directed. The black frowning cliffs of Cape Comfort might have seemed to the most sluggish imagination to grin upon her in irony. She lay in the grip of the ice-masses as helplessly as a kid does in the folds of a boa-constrictor; and once, when she slipped from that grip, or was hurtled into a change of position, she left her form as perfectly impressed behind her as if it had been struck in a die. The many old Greenland seamen on board all declared that they had never before seen a ship which could have resisted such a pressure. The perils, too, were increasing; and at length, on the 24th of September, the officers unanimously expressed a conviction, founded on the experience of the preceding thirty-four days, that all hope of making further progress that season toward Repulse Bay was gone.

Captain Back now resolved to cut a dock in the only adjacent floe which seemed sufficiently large and high to afford the ship fair protection. But, on the very next day, by one of those extraordinary convulsions which are the last hope of the ice-bound Arctic voyager, the whole body of ice, for leagues around, got into general commotion, and burst into single masses, and, commencing an impetuous rush to the west, tossed many blocks into heaps, ground others to powder, whirled all into a hurly-burly, and bore away the ship like a feather toward the Frozen Strait. Nothing could be done by the crew but to await the issue; and when the storm subsided, they found themselves midway between Cape Comfort and the entrance of the Frozen Strait, about three miles from the shore, without any prospect of either forcing their way into a harbor, or finding some little shelter in a floe. They were once more firmly beset, with the additional calamity of being so much tilted up, that the stern of the ship lay seven and a half feet above the

horizontal, and the bow was jammed downward on the masses ahead. "Thus," says Back, "ended a month of vexation, disappointment, and anxiety, to me personally more distressing and intolerable than the worst pressure of the worst evils which had befallen me in any other expedition."

After a long series of such trying vicissitudes, a time of repose followed. The long calm of winter seemed at last to have set in. Back, remembering the example of Parry, induced the officers to assist him in contriving some amusement for the men. Theatricals were got up, and the farce of *Monsieur Tonson* went off with hearty laughter and abundant plaudits. An evening school also was instituted, and kept vigorously going. But a startling event was at hand.

The floe, which had been at once cradle, wagon, and bulwark, to the ship, now cracked and split to within about forty paces of it, and gave fearful omen of being ready to go to pieces. It had become a home to the crew, and had been made snug with snow-walls, snow-houses, galleries, and court-yard, which served well some of the best purposes of a deck. It still held together, shattered and crazy, for three or four days, and carried them within sight of Seahorse Point, the south-eastern extremity of Southampton Island. Early on the morning of the 18th of February, there occurred, in rapid succession, first, a terrific crash on the eastern edge of the floe; next, a hoarse rushing sound across it; next, several severe shocks against the ship, and next, a visible rending of the floe right through the centre. The ship now began to strain and quiver; and she then heeled over to port, and relieved herself about six inches from an embankment which had been built against her side. At this time the crashing, grinding, rushing noise beneath the ship, and all over the floe, were appall-

ing. About two hours after, a commotion like an earthquake took place, and made cracks across the snow-houses, galleries, and court-yard, and forced the ship to creak through all her timbers. A semi-circular rampart of ice advanced from the opened sea beyond the floe; and enormous hillocky masses, some round and massy, and others like small packs, had broken loose, and seemed big with woe and ruin. At this awful moment the tumult suddenly ceased. But the ship was in a most perilous position; the ice all around was so splintered and jagged, and so fissured and holed, that it could neither bear a boat nor be made a depository of provisions; and the land was seven or nine miles distant, and probably could not have been reached by even the expertest ice-man, who should have had nothing but his own life to take care of.

On the following day the perils continued and increased, and on the 20th they reached a crisis. All the ice was again in motion, and one of its heaves broke up the floe along the starboard side of the ship, and threw down everything in its way. Some of the galleries now floated away, looking like tunnels; and the ship herself was in open water, subject to the rubs and nips of the ice-masses. A little after, she was violently struck far below the water-line, and creaked hideously from stem to stern, as if she were about to go asunder. All the crew were confounded, and even the poor sick went tottering aft, in an agony of terror. But the ship lifted herself fully eight inches from the pressure of a force which would have crushed a less strengthened vessel to atoms; and the assailing ice-mass either passed in part beneath the bottom, or was wedged against the large masses at the extremities. For upwards of three weeks, similar scenes, and worse, were frequent; and never on the polar seas was there a more marvellous

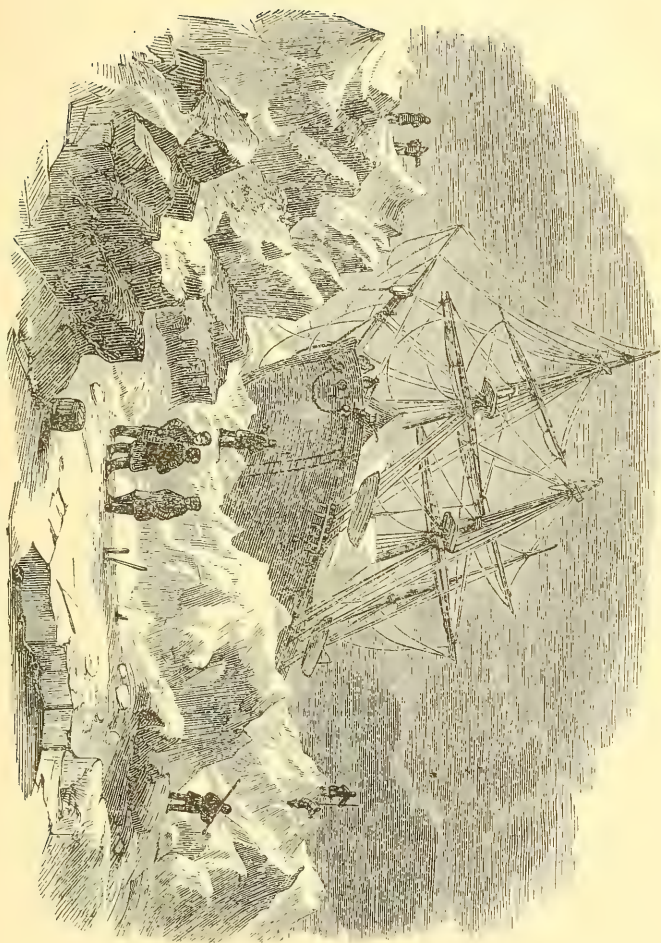


scene of awful dangers without a catastrophe, and of providential deliverances, without any instrumentality of man. The scenery was sometimes magnificently solemn, with such a perspective of moving, frowning, stupendous towers and bulwarks, as few human beings have ever witnessed ; and often, on the contrary, was it so enwrapped in fog, that its dreadful perils were much more readily heard than seen.

On several occasions the ship was violently nipped, and lifted herself up vertically to more than twice the former height, and groaned from the severity of the under-pressure. Once the ice-masses near her came impetuously on, and tossed their enormous weight against her, and threw her up and considerably over to starboard. At another time the lateral pressure crushed the contiguous ice into débris, and threw up a huge mass fully nineteen feet above the general level, and rolled the adjacent floe into hummocks, mounds, peaks, splinters, walls, and ramparts. At another time, after some alternations of commotion and quiet, and when all bad symptoms of an uproar had disappeared, the vast contiguous masses suddenly started into tumult, rubbed and tossed one another in furious conflict, flung piece over piece till all was a chaos, made the ship rise up abaft and tremble through hull and rigging, and accompanied the whole with such a whining, and screeching, and howling, as might have been taken for a revelry of demons. Worse scenes than even these followed ; and one of the chief of them will be best given in Back's own graphic words.

After describing two remarkable escapes from the tremendous shocks of driving ice, hurled together like mountain masses by an earthquake, he observes : " On the 16th of March another rush drove irresistibly on the larboard quarter and stern, and, forcing the ship

THE SHIP TERROR SEVERELY NIPPED.





ahead, raised her upon the ice. A chaotic ruin followed; our poor and cherished court-yard, its wall and arched doors, gallery, and well-trodden paths, were rent, and in some parts ploughed up like dust. The ship was careened fully four streaks, and sprang a leak as before. Scarcely were ten minutes left us for the expression of our astonishment that anything of human build could outlive such assaults, when another equally violent rush succeeded; and, in its way toward the starboard quarter, threw up a rolling wave thirty feet high, crowned by a blue square mass of many tons, resembling the entire side of a house, which, after hanging for some time in doubtful poise on the ridge, at length fell with a crash into the hollow, in which, as in a cavern, the after-part of the ship seemed imbedded. It was indeed an awful crisis, rendered more frightful from the mistiness of the night and dimness of the moon. The poor ship cracked and trembled violently, and no one could say that the next minute would not be her last; and, indeed, his own too, for with her our means of safety would probably perish."

During all the period of disasters after the disruption of the floe, the ship was carried hither and thither over a range of from twenty-six to forty-eight miles north-west of Seahorse Point, and seldom further than about ten miles from the nearest land. But, after the 16th of March, she set pretty steadily toward the south-east, and kept a good deal nearer the shore. The officers, at a formal consultation, agreed that she now seemed liable to be lost at any moment, and that a light-boat, with provisions, should, if possible, be landed to serve as a last resource, to communicate with the Hudson's Bay Company's factory, in the event of her going down. She still held marvellously firm, and continued to be cradled on a small piece of floe. On the 16th of April,

apparently by some conflicting action of strong calm currents, she lost the sides of her cradle; yet even then she retained the base of it, and was borne along on this as on a truck.

So late as the 20th of June, the ship still lay immovably fixed in the middle of a large floe, and, though disruptions and openings then became common, at comparatively small distances from her, she continued as firm in her cradle as in the beginning of February. No alternative offered but to cut her out with implements; and this proved an enormous labor, and occupied all the crew till the 11th of July. On that day the men had paused to draw breath, when suddenly the ice-rock burst asunder, barely allowing them time to clamber up in hot haste, for safety. "Scarcely," says Captain Back, "had I descended to my cabin, when a loud rumbling notified that the ship had broken her ice-bonds, and was sliding gently down into her own element. I ran instantly on deck, and joined in the cheers of the officers and men, who, dispersed on different pieces of ice, took this significant method of expressing their feelings. It was a sight not to be forgotten. Standing on the taffrail, I saw the dark bubbling water below, and enormous masses of ice gently vibrating and springing to the surface: the first lieutenant was just climbing over the stern, while other groups were standing apart, separated by this new gulf; and the spars, together with working implements, were resting half in the water, half on the ice, whilst the saw, the instrument whereby this sudden effect had been produced, was bent double, and in that position forcibly detained by the body it had severed."

A piece of the base of the ship's ice-cradle, however still clung to her, and continued to do so till the 13th and when it did break up, it did not set her free. On the contrary, she slowly rose, heeled over to port, and



seemed for some moments to be entirely capsizing. Those of her company who were on board felt suddenly as if on the verge of eternity. Yet they evinced no confusion, and cleared off and provisioned the boats with astonishing coolness and promptitude. She went so completely on her beam ends, that no man in her could move without holding on; but she went no further. A submerged ice-mass, whose end was congealed to her bottom, and whose other end projected right out from her, was the cause of her overturn, and it now held her firm in her perilous position. Officers and men beheld it with awe, and set promptly and energetically to the arduous task of sawing it off. They worked from eleven o'clock in the forenoon till two in the following morning, afraid that a squall might arise and ruin them; and when at last they had only ten feet more to saw, but were compelled by fatigue and drowsiness to go in quest of a short repose on the deck, suddenly there was a grating sound of breaking ice, and, before a word could be spoken, the ship sprang free, and entirely righted. The cheering of the crew was vociferous, and their joy unbounded. Four months, all but a day, had the ship been in the grip of the ice; and now, after a romance of perils, and a cycle of providential deliverances, she was again subject to the control of man.

The last scenes we have described took place in the vicinity of Charles Island, about midway between Cape Comfort and the mouth of Hudson's Strait. The query was naturally raised, whether anything could now be done to prosecute the object of the expedition; but the ship was found to be far too shattered to go again in her present state into collision with the ice, and a serious doubt soon arose whether she should be able to cross the sea to a British harbor. There was noth-

ing for it but to run her, with all possible speed, toward home. She was utterly crazy, and broken, and leaky; and not even her perilous tumbling among the ice-masses around the dismal Cape Comfort and the horrid Seahorse Point were more perilous than the struggling, staggering, water-logged voyage which she made across the northern Atlantic. She at last reached the north-west coast of Ireland, gradually sinking by the head, and was run ashore in Lough Swilly on the 3d of September; and, had she been three hours longer at sea, she would certainly have gone to the bottom. Her whole frame proved to be strained and twisted; many of her bolts were either loosened or broken; her fore-foot was entirely gone; and upwards of twenty feet of her keel, together with ten feet of her stern-post, had been driven over more than three feet and a half on one side, leaving a frightful opening astern for the free ingress of water. Well, therefore, might her crew, when they afterwards looked on her as she lay dry on the beach at low water, express astonishment that ever they had floated back in her to British shores; and ample occasion had they to cherish adoring gratitude to the all-powerful and all-benevolent Being who had preserved them.

Almost simultaneously with Back's expedition in the Terror, in 1836, the Hudson's Bay Company resolved on completing, if possible, the survey of those portions of the northern coast which Franklin and Back had failed to reach. This service was intrusted to Messrs. Dease and Simpson, two of their employées, with a party of twelve men, who were instructed to descend the Mackenzie River, and, on arriving at the sea, endeavor to follow the coast to the westward, either by land or water, as weather and other circumstances permitted, to the point at which Beechey turned back. They were after-

wards to explore to the eastward from Point Turnagain of Franklin ; to determine whether Boothia Felix were a peninsula, as Ross supposed, or an island ; and then to push on in the same direction to some known point which had been visited by Back.

In July, 1837, they had reached Return Reef, where Franklin was stopped. Beyond this all was new. Two large rivers were discovered, the Garry and Colville, the latter more than a thousand miles in length. Although in the middle of the dog-days, the ground was frozen so hard at four inches beneath the surface, that they could scarcely drive in their tent-pegs. So keen was the north-easterly wind, that "the spray froze on the oars and rigging ; and out in the bay the ice lay smooth and solid, as in the depth of a sunless winter." Yet even here a few flowers cheered the eyes of the travellers, and enlivened the stubborn soil. On the 1st of August, further progress by water being impracticable, — they had gained but four miles on the four previous days, — Mr. Simpson, with some of the men, continued the journey on foot, while Mr. Dease and the others remained in charge of the boats. The walking-party, after two or three days' travel, fell in with a number of Esquimaux, from whom they hired an oomiak, or family-canoe, in which to pursue the voyage along the lanes of open water occasionally visible close to the beach. On the 4th, after passing the mouth of a large, deep river, "I saw," says Mr. Simpson, "with indescribable emotions, Point Barrow stretching out to the northward, and enclosing Elson Bay, near the bottom of which we now were." This, it will be remembered, was the furthest point attained by the *Blossom's* barge in 1826, an exploit commemorated by naming the bay after Lieut. Elson, one of the officers in command.

The party returned to the winter station on Great

Bear Lake, and, while there, received instructions to renew their search to the eastward, and were informed of Sir G. Back's expedition, with which they were, if possible, to communicate. They were descending the Coppermine in June, 1838, in pursuance of these instructions, when the stream was swollen by spring floods, and encumbered with floating ice; and, in shooting the numerous rapids, "had to pull for their lives, to keep out of the suction of the precipices, along whose base the breakers raged and foamed, with overwhelming fury. Shortly before noon, we came in sight of Escape Rapid of Franklin; and a glance at the overhanging cliffs told us that there was no alternative but to run down with full cargo. In an instant," continues Mr. Simpson, "we were in the vortex; and, before we were aware, my boat was borne towards an isolated rock, which the boiling surge almost concealed. To clear it on the outside was no longer possible; our only chance of safety was to run between it and the lofty eastern cliff. The word was passed, and every breath was hushed. A stream which dashed down upon us over the brow of the precipice, more than one hundred feet in height, mingled with the spray that whirled upwards from the rapid, forming a terrific shower-bath. The pass was about eight feet wide, and the error of a single foot on either side would have been instant destruction. As, guided by Sinclair's consummate skill, the boat shot safely through those jaws of death, an involuntary cheer arose. Our next impulse was to turn round to view the fate of our comrades behind. They had profited by the peril we incurred, and kept without the treacherous rock in time."

They had navigated but a short distance along the coast when they were stopped by ice, and lingered many days at Boathaven, in a state of utter hopelessness. The

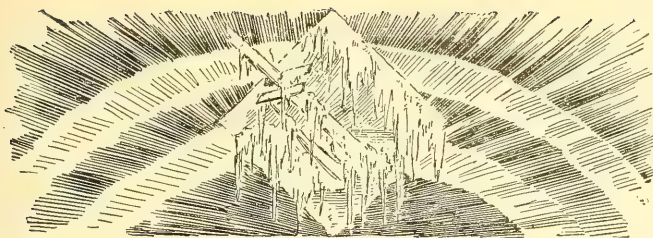
time for returning had arrived ere any real work had been accomplished. At length, on the 20th of August, Mr. Simpson started with seven men for a ten days' walk to the eastward, on the first of which they passed Point Turnagain, the limit of Franklin's survey in 1821. By the 23d they had toiled onwards to an elevated cape, rising from a sea beset with ice; and, the land closing all round to the northwards, further progress seemed to be impossible. "With bitter disappointment," writes Mr. Simpson, "I ascended the height, from whence a vast and splendid prospect burst suddenly upon me. The sea, as if transformed by enchantment, rolled its free waves at my feet, and beyond the reach of vision to the eastward. Islands of various shape and size overspread its surface, and the northern land terminated to the eye in a bold and lofty cape, bearing east-north-east, thirty or forty miles distant, while the continental coast trended away south-east. I stood, in fact, on a remarkable headland, at the eastern outlet of an ice-obstructed strait. On the extensive land to the northward I bestowed the name of our most gracious sovereign, Queen Victoria. Its eastern visible extremity I called Cape Pelly, in compliment to the governor of the Hudson's Bay Company."

In 1839 they were more successful, and, favored with mild weather and an open sea, they sailed through the narrow strait that separates Victoria Land from the main. On the 13th of August they doubled Point Ogle, the furthest point of Back's journey in 1834; an event which terminated the long-pursued inquiry concerning the coast-line. They had thus ascertained that the American continent is separated from Boothia to the westward of Back's Estuary. The survey was now complete. A day or two later, the party, with flags flying, crossed to Montreal Island, in Back's Estuary,



where they discovered a deposit of provisions which Back had left there five years previously. The pemmican was unfit for use ; but out of several pounds of chocolate, half decayed, the men contrived to pick sufficient to make a kettle-full of acceptable drink in honor of the occasion. There were also a tin case and a few fish-hooks, of which, observes Mr. Simpson, " Mr. Dease and I took possession, as memorials of our having breakfasted on the identical spot where the tent of our gallant, though less successful precursor, stood that very day five years before."

They had now obeyed their instructions to the letter ; the coast-line was determined, and connected with what was previously known to the eastward. It was time to think of returning, but it still remained a question whether some part of Boothia might not be united to the continent on the *eastern* side of the estuary. Doubling, therefore, its eastern promontory, they passed a point of the continent which they named Cape Britannia, and another called Cape Selkirk, and proceeded toward some islands in the Gulf of Akkolee, so far as to satisfy themselves that they were to the eastward of any part of Boothia. By the 20th of August they had sailed far enough to see the further shore, with its capes, of the Gulf of Boothia, which runs down to within forty miles of Repulse Bay ; and they then turned back. On their return, they traced sixty miles of the south coast of Boothia, where at one time they were not more than ninety miles from the site of the magnetic pole, as determined by Sir James Ross. A long extent of Victoria Land was also examined ; and, on the 16th of September, they once more happily entered the Coppermine, after a boat voyage of more than sixteen hundred miles, the longest ever performed in the Polar Sea



## CHAPTER XI.

RAE'S LAND EXPEDITION. — SHORES OF HUDSON'S BAY. — ESQUIMAUX CANOES. — REPULSE BAY. — GAME IN PLENTY. — SLEDGE TRAVELLING. — SNOW-HOUSES. — RETURN. — RENEWED INTEREST IN THE DISCOVERY OF A NORTH-WEST PASSAGE. — THE EREBUS AND TERROR. — SIR JOHN FRANKLIN'S LAST VOYAGE. — MYSTERY OF HIS FATE.

THE supposed great bay, extending from the furthest point reached by Messrs. Dease and Simpson, eastward to the Fury and Hecla Strait, now became an object of intense interest. The mystery which overhung the north-east corner of the American mainland seemed, at last, to be almost revealed. Let but the coast-line from the mouth of the Castor and Pollux to the eastern extremity of the Gulf of Akkolec be examined, so as to connect the discoveries of Messrs. Dease and Simpson with those of the second voyage of Parry, and those of the second voyage of John Ross, and all would become plain.

In 1846, accordingly, the Hudson's Bay Company fitted out an expedition to effect this object ; and Dr John Rae was appointed to the command. He was just the man for it : he was surgeon, astronomer, steersman, and leader to the party ; had spent several years in the service of the company ; and added to his other attainments the not unimportant accomplishments of a first-rate snow-shoe walker and a dead shot.

On the 8th of October, Rae landed at York Factory, after a canoe journey of about two months' duration

through the interior, from Canada. Here he wintered and, on the 12th of June, set sail in two boats, with six men to each, along the shores of Hudson's Bay, which are here low, flat, and uninteresting. On the 27th they landed at Churchill. They found the people here engaged in killing white whales, which are often seen rolling their bulky forms up the rivers that flow into the bay. Their flesh is used as food for dogs, the house in which it is kept being called the blubber-house; to find which house, especially in summer, the simple direction, "follow your nose," is sufficient.

Having taken on board Ooligbuck, an Esquimaux interpreter, and the son of Ooligbuck, a sad thief, who had a peculiar fancy for tobacco and buttons, they left Churchill July 5th, 1846. During the day they passed the Pau-a-thau-kis-cow river, where they were overtaken by three Esquimaux, in their kayaks. These little canoes were propelled by their vigorous occupants so swiftly, that they easily kept up with the boats, while sailing at the rate of four miles an hour. The kayak is about twelve feet in length, and two in breadth, tapering off from the centre to the bow and stern, almost to a mere point. The frame is of wood, covered with seal-skin, having an aperture in the centre, which barely admits of the stowage of the nether man. They are used solely for hunting, and, by means of the double paddle, are propelled through the water with the velocity of the dolphin. No land animal can possibly escape when seen in the water; the least exertion is sufficient to keep up with the reindeer when swimming at its utmost speed.

The *oomiak*, or women's boat, is much clumsier, slower, and safer, more in the form of a boat than a canoe, and is used to convey the female portion of the community and their families from one part of the coast

A FURIOUS ATTACK BY WALRUSES.







to another, being propelled by the women, who use small paddles for the purpose.

On the 13th, Chesterfield Inlet was passed. Walruses were here seen. "They were grunting and bellowing," says Rae, "making a noise which I fancy would much resemble a concert of old boars and buffaloes." At the head of Repulse Bay, where they landed on the 25th, they fell in with more Esquimaux, and procured from them some seal-skin boots. When about to put on a pair of these boots, says Rae, "one of our female visitors, noticing that the leather of the foot was rather hard, took them out of my hands, and began chewing them with her strong teeth." By this process they were softened for the wearing.

They quitted the head of Repulse Bay, in latitude  $66^{\circ} 32'$  north, and succeeded in conveying one of their boats to the southern extremity of the Gulf of Akkolee, in latitude  $67^{\circ} 13'$  north. They found a chain of lakes lying across the isthmus, and derived great aid from it in the conveying of the boat. They proceeded along the coast of the Gulf of Akkolee till the 5th of August, and they observed the tides to be, on the average, far higher than in the Polar Sea, but exceedingly irregular, and varying in rise from four to ten feet; and already they began to entertain a strong presumption that Boothia, after all, is a peninsula of the American mainland. But they were utterly baffled in their progress by ice and fogs and northerly winds, and felt obliged to return at about latitude  $67^{\circ} 30'$  north, and spend the winter at Repulse Bay. There they built a house, and procured a stock of provisions by hunting and fishing, principally reindeer and salmon; and, excepting what was used for cooking, they had no fuel throughout the winter. The sporting-book for September showed that they had been diligent; sixty-three deer, five hares,

one seal, one hundred and seventy-two partridges, and one hundred and sixteen salmon and trout, having been brought in.

On the 5th of April, 1847, six of the party again started north with sledges, drawn by dogs, and travelled along the west shore of the Gulf of Akkolee; and, on the 18th, they reached the vicinity of Sir John Ross's most southerly discoveries. The question of the supposed communication with the Polar Sea was here to be set at rest. They decided now to strike off from the coast across the land as nearly north as possible; and they had a tiresome march through snow, and across three small lakes; and, at noon, when near the middle of another lake of about four miles in length, they ascertained their latitude to be  $69^{\circ} 26' 1''$  north. They walked three miles more, and came to still another lake; and, as there was not yet any appearance of the sea, Rae gave orders to the men to prepare their lodgings, and went forth alone to look for the coast. He arrived in twenty minutes at an inlet of not more than a quarter of a mile wide, and traced this westward for upwards of a league, and there found his course once more obstructed by land.

Some rocky hillocks were near, and, thinking he saw from the top of these some rough ice in the desired direction, he inhaled fresh hope, pushed eagerly on to a rising ground in the distance, and there beheld stretched out before him an ice-covered sea, studded with innumerable islands. But it was the sea of Sir John Ross, the Lord Mayor's Bay of the disastrous voyage of the *Victory*; and the islands were those which Sir John had named the Sons of the Clergy of the Church of Scotland. Rae, therefore, had simply crossed a peninsula of the Gulf of Akkolee; and thus did he ascertain that the shores which witnessed the

woes of the Victory, the eastern shores of Boothia, are continuous with the mainland of America.

On this expedition, "our usual mode," says Rae, "of preparing lodgings for the night was as follows: As soon as we had selected a spot for our snow-house, our Esquimaux, assisted by one or more of the men, commenced cutting out blocks of snow. When a sufficient number of these had been raised, the builder commenced his work, his assistants supplying him with the material. A good roomy dwelling was thus raised in an hour, if the snow was in a good state for building. Whilst our principal mason was thus occupied, another of the party was busy erecting a kitchen, which, although our cooking was none of the most delicate or extensive, was still a necessary addition to our establishment, had it been only to thaw snow. As soon as the snow-hut was completed, our sledges were unloaded, and everything eatable (including parchment-skin and moose-skin shoes, which had now become favorite articles with the dogs) taken inside. Our bed was next made, and, by the time the snow was thawed or the water boiled, as the case might be, we were all ready for supper. When we used alcohol for fuel (which we usually did in stormy weather), no kitchen was required."

Sir James Clarke Ross, who figured in the voyage of the Victory as Commander Ross, says, "Mr. Rae's description of the inlet he crossed over to in the south-east corner of Lord Mayor's Bay, accords so exactly with what I observed whilst surveying its shores, that I have no doubt of his having reached that inlet on which I found the Esquimaux marks so numerous, but of which no account was published in Sir John Ross's narrative." Rae appropriately named the peninsula Sir John Ross's Peninsula; and the isthmus, connecting it with the mainland, and flanking the inlet, Sir James

Ross's Isthmus. The latter is only one mile broad, and has three small ponds; but it bears evident marks of being an autumnal deer-pass, and, therefore, a favorite resort of the Esquimaux. Rae had thus reached the goal of his wishes.

A progress to the furthest point reached by Messrs. Dease and Simpson was not attempted, for it was now ascertained that this must comprise a journey over land, and either a voyage across a large land-locked estuary, or a coasting along its shores; and for these the explorers had neither time nor resources. They forthwith began to retrace their route to the fort at Repulse Bay. All the *caches* of provisions which had been made during the outward journey were found quite safe, and thus afforded them a plentiful supply of food. On the morning of the 5th of May they reached some Esquimaux dwellings on the shores of Christie's Lake, about fifteen miles from Fort Hope. "At two p. m on the same day," says Rae, "we were again on the march, and arrived at our home at half-past eight p. m., all well, but so black and scarred on the face, from the combined effects of oil, smoke, and frost-bites, that our friends would not believe but that some serious accident from the explosion of gunpowder had happened to us. Thus successfully terminated a journey little short of six hundred English miles, the longest, I believe, ever made on foot along the Arctic coast."

On the 12th of May, at the head of a similar party, Rae set out to examine the east side of the gulf; and on the 27th, in a bewildering snow-storm, he reached his ultimatum, at a headland which they called Cape Crozier. But, during a blink of the storm, he got a clear view of a headland nearly twelve miles further on, which he called Cape Ellice, and computed to be in latitude  $69^{\circ} 42'$  north, and longitude  $85^{\circ} 8'$  west, or within

about ten miles of the Fury and Hecla Straits. "Our journey," says Dr. Rae, "hitherto had been the most fatiguing I had ever experienced; the severe exercise, with a limited allowance of food, had reduced the whole party very much. However, we marched merrily on, tightening our belts, — mine came in six inches, — the men vowing that when they got on full allowance they would make up for lost time." On the 12th of August the whole original party embarked at Repulse Bay, and on the 31st arrived at Churchill.

The return of Captain Sir James Clarke Ross, in 1844, from his brilliant career in the Antarctic Ocean, gave a sudden stimulus in England to the old craving for the discovery of a north-west passage. The ships *Erebus* and *Terror* were now famous for their fitness to brave the dangers of the ice, and could be reëquipped at comparatively small cost. Naval officers and whale-fishermen and hardy seamen were fired with the spirit of adventure. Statesmen panted to send the British flag across all the breadth of the Polar Sea: scientific gentlemen longed for decisions in terrestrial magnetism, which could be obtained only in the regions around the magnetic pole; and, though merchants and other utilitarians could never again regard the old notion of a commercial highway to the Indian seas through Behring's Strait as worthy of consideration, yet multitudes of the curious, among all classes of society, were impatient to have the veil penetrated which had so long hid from the world's wondering gaze the mysteries of the ice-girt archipelago of the north. The very difficulties of the enterprise, together with the disasters or failures of all former expeditions, only roused the general resolution.

Sir John Barrow, Secretary to the Admiralty, had for thirty years been the fervent advocate of every enterprise which could throw light on the Arctic regions, and



had incessantly bent in that direction the powerful influence which he wielded : and now again was he at his vocation. Lieut. Col. Sabine, also, whose opinion carried much weight, declared "that a final attempt to make a north-west passage would render the most important service that now remained to be performed toward the completion of the magnetic survey of the globe." The Lords of the Admiralty and the Council of the Royal Society gave a formal assent ; and Sir John Franklin, the hero of some most perilous exploits within the Arctic circle, who now stood out to view as the likeliest man to conduct the desired enterprise, had said in 1836, and continued to say still, "that no service was nearer to his heart than the completion of the survey of the north-west coast of America, and the accomplishment of a north-west passage."

The Erebus and the Terror were ordered to be got ready. Both had braved all the perils of the Antarctic expedition under Sir James C. Ross, and the latter was the ship of the terrific ice-voyage of 1836, in Hudson's Bay. They were the best-tested and the best-appurtenanced vessels which had ever faced the frozen regions ; and each was now fitted with a small steam-engine and screw-propeller. Sir John Franklin was appointed to the chief command, and hoisted his flag in the Erebus ; and Captain Richard Crozier, who had been the distinguished colleague of Sir James C. Ross in the Antarctic voyage, was appointed to the Terror. So many naval officers volunteered their services, that, had all been accepted, they might themselves have completely manned the ships. The total number of persons put on board was one hundred and thirty-eight ; and they formed as select, resolute, and experienced a body of adventurers as ever went to sea. The transport Daretto junior, also, under the command of Lieut. Griffith, was laden

with out-stores, to be discharged into the ships in Davis's Strait.

The official instructions to Sir John Franklin were minute, comprehensive, and far-sighted, and made provision for all important contingencies. But only those of them which relate to the main conduct of the expedition possess much public interest; and these, taken in connection with the mournful and exciting mystery into which the ships so soon passed, seem too momentous to allow of much abridgment. "On putting to sea," said they, "you are to proceed, in the first place, by such a route as, from the wind and weather, you may deem to be the most suitable for despatch, to Davis's Strait, taking the transport with you to such a distance up that strait as you may be able to proceed without impediment from ice, being careful not to risk that vessel by allowing her to be beset in the ice, or exposed to any violent contact with it. You will then avail yourself of the earliest opportunity of clearing the transport of the provisions and stores with which she is charged for the use of the expedition; and you are then to send her back to England, giving to the agent or master such directions for his guidance as may appear to you most proper, and reporting by that opportunity your proceedings to our secretary for our information. You will then proceed, in the execution of your orders, into Baffin's Bay, and get, as soon as possible, to the western side of the strait, provided it should appear to you that the ice chiefly prevails on the eastern side or near the middle, the object being to enter Lancaster Sound with as little delay as possible.

"But, as no specific directions can be given, owing to the position of the ice varying from year to year, you will, of course, be guided by your own observations as to the course most eligible to be taken, in order to

insure a speedy arrival in the sound above-mentioned. As, however, we have thought fit to cause each ship to be fitted with a small steam-engine and propeller, to be used only in pushing the ships through channels between masses of ice when the wind is adverse, or in a calm, we trust the difficulty usually found in such cases will be much obviated. But, as the supply of fuel to be taken in the ships is necessarily small, you will use it only in cases of difficulty.

“ Lancaster Sound and its continuation through Barrow's Strait, having been four times navigated without any impediment by Sir Edward Parry, and since frequently by whaling-ships, will probably be found without any obstacles from ice or islands; and Sir Edward Parry having also proceeded from the latter in a straight course to Melville Island, and returned without experiencing any or very little difficulty, it is hoped that the remaining portion of the passage, about nine hundred miles, to Behring's Strait, may also be found equally free from obstruction; and in proceeding to the westward, therefore, you will not stop to examine any openings either to the northward or southward in that strait, but continue to push to the westward, without loss of time, in the latitude of about  $74\frac{1}{4}^{\circ}$ , till you have reached the longitude of that portion of land on which Cape Walker is situated, or about  $98^{\circ}$  west. From that point we desire that every effort be used to endeavor to penetrate to the southward and westward, in a course as direct towards Behring's Strait as the position and extent of the ice, or the existence of land, at present unknown, may admit.

“ We direct you to this particular part of the Polar Sea as affording the best prospect of accomplishing the passage to the Pacific, in consequence of the unusual magnitude and apparently fixed state of the barrier of

ice observed by the *Hecla* and *Griper* in the year 1820, off Cape Dundas, the south-western extremity of Melville Island; and we therefore consider that loss of time would be incurred in renewing the attempt in that direction. But, should your progress in the direction before ordered be arrested by ice of a permanent appearance, and should you, when passing the mouth of the strait between Devon and Cornwallis's Islands, have observed that it was open and clear of ice, we desire that you will duly consider, with reference to the time already consumed, as well as to the symptoms of a late or early close of the season, whether that channel might not offer a more practicable outlet from the archipelago, and a more ready access to the open sea, where there would be neither islands nor banks to arrest and fix the floating masses of ice.

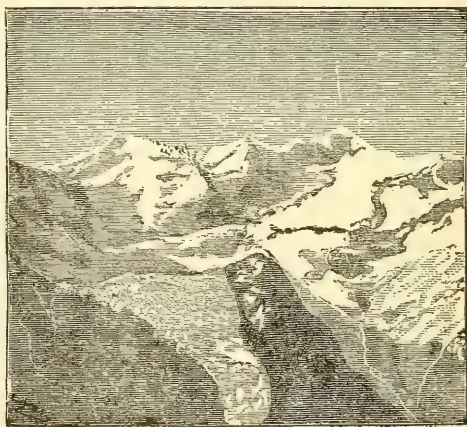
“And if you should have advanced too far to the south-westward to render it expedient to adopt this new course before the end of the present season, and if, therefore, you should have determined to winter in that neighborhood, it will be a matter for your mature deliberation whether, in the ensuing season, you would proceed by the above-mentioned strait, or whether you should persevere to the south-westward, according to the former directions.

“You are well aware, having yourself been one of the intelligent travellers who have traversed the American shore of the Polar Sea, that the groups of islands that stretch from that shore to the northward, to a distance not yet known, do not extend to the westward further than about the one hundred and twentieth degree of western longitude; and that beyond this, and to Behring's Strait, no land is visible from the American shore of the Polar Sea. In an undertaking of this description, much must be always left to the discretion of the com-

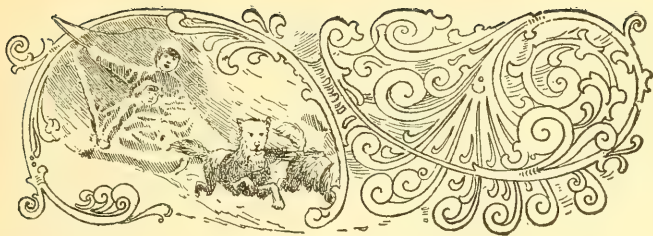
manding officer; and, as the objects of this expedition have been fully explained to you, and you have already had much experience on service of this nature, we are convinced we cannot do better than leave it to your judgment."

He was instructed, also, in the event of reaching Behring's Strait, to proceed to the Sandwich Islands and Panama, and to put an officer ashore at the latter place with despatches.

The ships sailed from the Thames on the 19th of May, 1845. The *Erebus* and the *Terror* received the transport's stores, and dismissed her in Davis's Strait, and then had abundant provisions of every kind for three years, besides five bullocks. They were seen by the whaler *Prince of Wales*, on the 26th of July, moored to an iceberg, waiting for an opening through the long vast body of ice which extends along the middle of Baffin's Bay. They were then in latitude  $74^{\circ} 48'$  north, and longitude  $66^{\circ} 13'$  west, not far from the centre of Baffin's Bay, and about two hundred and ten miles from the entrance of Lancaster Sound.







## CHAPTER XII.

ANXIETY IN REGARD TO FRANKLIN AND HIS SHIPS.—THREE EXPEDITIONS OF SEARCH SENT OUT.—KELLETT AND MOORE'S EXPEDITION BY BEHRING'S STRAIT.—ITS RETURN.—RICHARDSON'S AND RAE'S LAND EXPLORATIONS.—SIR J. C. ROSS'S EXPEDITION BY LANCASTER SOUND.—THE EXPLORERS RETURN UNSUCCESSFUL.—LIEUT. PULLEN, FROM THE BEHRING STRAIT EXPEDITION, ASCENDS THE MACKENZIE.—RETURN TO THE ARCTIC SEA AND BACK.—THE SEASON OF 1850.—PULLEN'S ARRIVAL IN ENGLAND.

TOWARD the end of the year 1847, anxiety began to be felt in regard to the fate of Franklin and his men. Not a word had been heard from them since they had been seen by the Prince of Wales whaler; and apprehension became general that they had shared a similar fate to the *Fury* of Sir Edward Parry, or the *Victory* of Sir John Ross. The government, therefore, promptly determined to send three expeditions in search of them. The first was a marine expedition, by way of Behring's Strait, to be conducted by Captain Henry Kellett, of the ship *Herald*, of twenty-six guns, then in the Pacific, aided by Commander Thomas E. L. Moore, in the *Plover*, surveying vessel; and this was designed to relieve Sir John Franklin and his companions in the event of their having gone through the north-west passage, and stuck fast at some advanced point of the Polar Sea. The second was an overland and boat expedition, to be conducted by Sir John Richardson, to descend the Mackenzie River, and to examine the coast eastward to the Coppermine: and this was designed to afford relief in the event of the adventurers having

taken to their boats westward of the Northern Archipelago, and forced their way to the American continent. The third was a marine expedition, to be conducted by Sir James Clarke Ross, with the ships *Enterprise* and *Investigator*, through Lancaster Sound and Barrow's Strait, to examine all the tracks of the missing ships westward as far as they could penetrate into the archipelago; and this was designed to afford relief in the event of the adventurers having been arrested either in the very throat of the supposed passage, or at some point on this side of it, and of their attempting to retrace their steps. This plan of search seemed comprehensive and noble, and was carried with all possible promptitude into execution. The *Plover* left Sheerness on the 1st January, 1848; but, being a miserable sailer, did not reach Oahu, in the Sandwich Islands, till the 22d August. She was then too late to attempt, that season, any efficient operations within the Arctic Circle, and she passed on to winter quarters at Noovel, on the coast of Kamtschatka. The *Herald*, meanwhile, had received instructions from home, and gone northward as far as Cape Krusenstern, in Kotzebue Sound, the appointed rendezvous. But, not being prepared to winter there, nor prepared for explorations among ice, she returned, in autumn, to the Sandwich Islands.

On the 30th June, 1849, the *Plover* left Noovel, and on the 14th July anchored off Chamisso Island, at the bottom of Kotzebue Sound. Next day she was joined by the *Herald* and by the *Nancy Dawson*, the latter a yacht belonging to Robert Shedden, Esq., who, in the course of a voyage of pleasure round the globe, got intelligence in China of the intended expedition through Behring's Strait in search of Sir John Franklin, and nobly resolved to devote his vessel and himself to its aid. On the 18th the three vessels left Chamisso; on

the 20th they were off Cape Lisburn ; and on the 25th, after having passed Icy Point, they despatched a boat expedition, under Lieut. Pullen.

This boat expedition was designed to connect the proceedings of the present voyage with those of the overland expedition under Sir John Richardson, and to institute search and provide succor for the missing adventurers on the likeliest part of the coast and mainland west of the Mackenzie River. It consisted of the *Herald's* pinnace, decked over, and three other boats, and comprised twenty-five men, and had nearly three months' provisions for its own use, besides five cases of pemmican for the use of Sir John Franklin's party. But it was accompanied also by Mr. Shedden in his yacht. It was directed, after proceeding a certain distance along the coast in-shore, to return to a rendezvous with the *Plover* at Chamisso Island, but at the same time to despatch from its furthest point a detachment in two whale-boats, well provisioned and equipped, to extend the search to the mouth of the Mackenzie River, and then to ascend that river, and proceed homeward by Fort Hope and York Factory, in the summer of 1850.

The *Herald* and the *Plover*, in the mean while, bore away to the north, and on the 26th, in latitude  $71^{\circ} 5'$  north, reached the heavily-packed ice. They sailed sometimes along the edge of this, and sometimes through streams and among floes, till the 28th, when they could proceed no further, on account of the perfect impenetrableness of the pack. They were then in latitude  $72^{\circ} 51'$  north, and longitude  $163^{\circ} 48'$  west. The ice, as far as it could be seen from the mast-head, trended away west-south-westward ; yet, while densely compact for leagues distant, seemed to be broken by a water-line in the northern horizon. On the 28th the ships came again to the land, and the *Herald* bore

in to examine Wainwright's Inlet, while Commander Moore went on shore, erected a mark, and buried a bottle containing information about the boats. This place, unhappily, was found too shallow to afford harborage; else it would have proved an excellent retreat, on account, at once, of its high latitude, of its being a resort for reindeer, of the friendliness of the natives, and of there being no nearer harbor to the south than Kotzebue's Sound, while even that place was regarded by the ice-masters as an unsafe wintering quarter.

From the 1st of August till the 17th, Cape Lisburn being appointed for a rendezvous, the ships made active explorations in various directions near shore, and away northward as far as they could penetrate. On the 17th the Herald discovered a new territory. "At forty minutes past nine," on that day, says Captain Kellett, "the exciting report of 'Land ho!' was made from the mast-head: both mast-heads were soon afterwards crowded. In running a course along the pack toward our first discovery, a small group of islands was reported on our port-beam, a considerable distance within the outer margin of the ice. Still more distant than this group (from the deck), a very extensive and high land was reported, which I had been watching for some time, anxiously awaiting a report from some one else. There was a fine clear atmosphere (such a one as can only be seen, in this climate, except in the direction of this extended land), where the clouds rolled in numerous immense masses, occasionally leaving the very lofty peaks uncapped; where could be distinctly seen columns, pillars, all very broken, which is characteristic of the higher headlands in this sea — East Cape and Cape Lisburn, for example. With the exception of the north-east and south-east extremes, none of the lower land could be seen, unless, indeed, what I took, at first,

for a small group of islands within the pack edge was a point of this great land. This island, or point, was distant twenty-five miles from the ship's track; higher parts of the land seemed not less, I consider, than sixty. When we hove to off the first land seen, the northern extreme of the great land showed out to the eastward for a moment, and so clear as to cause some who had doubts before to cry out, 'There, sir, is the land quite plain.' " They afterwards ran up to the island, and landed upon it, and found it a solid and almost inaccessible mass of granite, about four and a half miles long, two and a half miles broad, and fourteen hundred feet high. Its situation is latitude  $71^{\circ} 20'$  north, and longitude  $175^{\circ} 16'$  west. The distant mountainous land seemed to be extensive, and was supposed by Captain Kellett to be a continuation of the lofty range seen by the natives off Cape Jakan, in Asia, and mentioned by Baron Wrangell, in his Polar Voyages.

In the vicinity of Cape Lisburn, on the 24th August, the Nancy Dawson, and the return boats of Lieut. Pullen's expedition, rejoined the Herald. They had searched the coast as far east as Dease's Inlet, and had there parted with the two whale-boats; and had, at several points, made deposits of provisions, but had not obtained the slightest intelligence of the missing adventurers. Mr. Shedden had been particularly active and daring, and had many times put his yacht in peril. And, it is painful to add, though this is said in anticipation of the date, that he fell a victim to his excessive exertions during the noble service. He died, eight or ten weeks after, at Mazatlan.

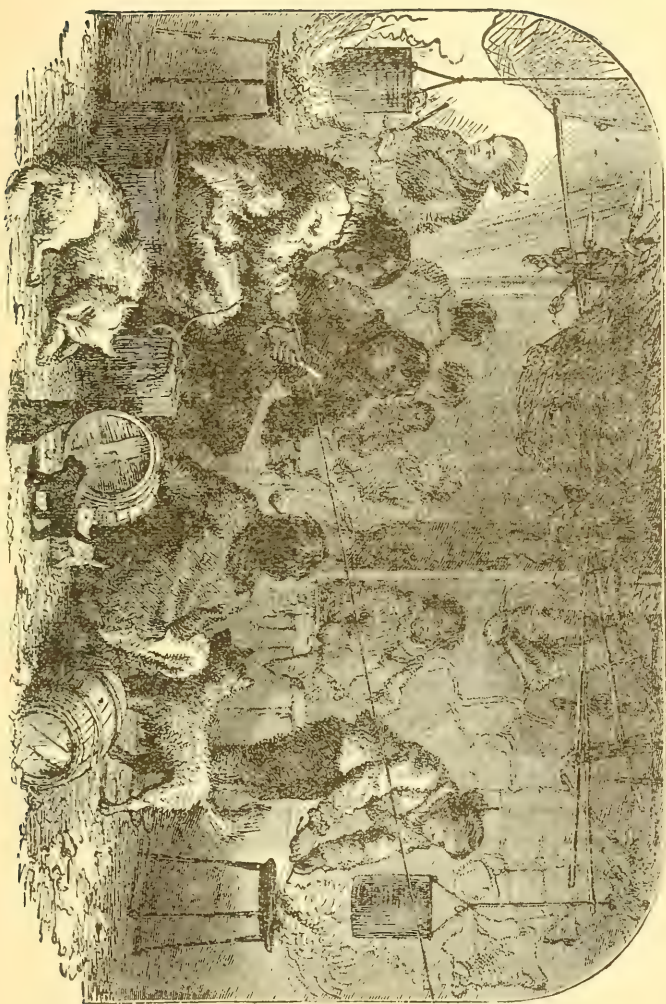
On the 1st of September the two ships and the yacht rendezvoused in Kotzebue Sound. Upwards of a fortnight was now spent in making an interesting exploration up the Buckland River, and in establishing friendly



relations with the natives. The whole month of September was remarkably fine, the frost to the latest so light as not to arrest the streams, and strong winds generally blowing from the east. The Plover prepared to winter in Kotzebue Sound, with the view of making further researches, and received from her consort as much provisions as she could stow or take care of. And on the 29th September the Herald and the yacht weighed anchor, and stood away for the south.

On the 10th July, 1850, the Herald again joined the Plover at Chamisso Island; and the two ships then set out together on another exploration. They proceeded northward till they sighted the pack-ice, and then separated — the Herald to return in quest of another and stronger expedition which had sailed from England, and which we shall afterwards have occasion to notice; and the Plover to prosecute the search eastward along the coast. Commander Moore, by means of his boats, made minute examination of all the inlets between Icy Cape and Point Barrow; he and his men suffered severely from exposure to cold; but they were entirely unsuccessful in the object of their search. The two ships again fell in with each other off Cape Lisburn on the 13th August; and Captain Kellett eventually gave full victualling to the Plover, ordered her to winter in Grantley Harbor, and then, toward the close of the open season, returned through Behring's Strait on his way to England. Thus, in October, 1850, ended this first western searching expedition, without having thrown one ray of light on the probable fate of Sir John Franklin.

The second searching expedition was the overland one, under the command of Sir John Richardson. In preparation for it, several boats, seven tons of pemmican, large quantities of other provisions and stores, five seamen, and fifteen sappers and miners, were embarked



DOMESTIC LIFE IN THE FRIGID REGIONS.



at Gravesend, on board of ships of the Hudson's Bay Company, on the 4th June, 1847. Sir John Richardson and Mr. Rae left Liverpool on the 25th March, 1848, and succeeded in overtaking Chief-trader Bell, in charge of the boats and the men, at Methy Portage, on the 20th June. The whole party reached the last portage on Slave River on the 15th July, and there they divided into a seaward or exploring party, under Sir John Richardson and Mr. Rae, and a landward or auxiliary party, under Mr. Bell. The seaward party comprised three boats, with full loads of pemmican, and eighteen men, and immediately embarked. The landward party comprised two boats and the stores for winter use, and were directed to make the best of their way to Great Bear Lake, to coast round its western shore, and to establish a fishery at its west end, near the site of Fort Franklin, for the convenience of the seaward party, in the event of its having to return up the Mackenzie; to erect, at its north-eastern extremity, near the influx of the Dease River, suitable dwelling-houses and store-houses for winter quarters; and, in the beginning of September, to despatch a well-trying Cree Indian and a native hunter to the banks of the Coppermine, there to hunt till the 20th of that month, and to keep a diligent outlook for the arrival of the boats.

The seaward party reached the sea on the 4th of August. On their way down, they put ashore, at Fort Good Hope, the lowest of the company's posts on the Mackenzie, three bags of pemmican for the use of any party from the Plover, or from Sir James Ross's ships, who might reach that establishment. At Point Separation, also, which forms the apex of the delta of the Mackenzie, they deposited one case of pemmican and a bottle of memoranda, and letters for the use of Sir John Franklin's party, burying them in the circumference of

a circle with a ten-feet radius, from the point of a broad arrow painted on a signal-post; and they afterwards did the same thing, or similar, on Whale Island, at the mouth of the Mackenzie; on Point Toker, in latitude  $69^{\circ} 38'$  north, and longitude  $132^{\circ} 15'$  west; on Cape Bathurst, the most northerly point between the Mackenzie and the Coppermine; and on Cape Parry, at the east side of the entrance of Franklin Bay.

The explorers encountered head winds throughout most of their progress of eight hundred miles or upwards, from the exit of the Mackenzie to the mouth of the Coppermine; and they always kept near the shore, and landed at least twice a day to cook, occasionally to hunt, often to look out from the high capes, and commonly, at night, to sleep on shore. Immediately off the efflux of the Mackenzie they had an interview with about three hundred Esquimaux; and at many subsequent points they communicated with other parties, who were assembled on headlands to hunt whales, or scattered along the coast in pursuit of reindeer and water-fowl. The Esquimaux were confiding and frank, and all said that no ships had recently appeared on the coast; and those west of Cape Bathurst further said that during the preceding six weeks they never saw any ice.

One fellow alone, in answer to inquiries after white men, said, "A party of men are living on that island," pointing, as he spoke, to Richard's Island. As Richardson had actually landed there on the preceding day, he ordered the interpreter to inform him that he knew that he was lying. He received this retort with a smile, and without the slightest discomposure, but did not repeat his assertion. Neither the Esquimaux nor the Dog-rib or Hare Indians feel the least shame in being detected in falsehood; and they invariably practise it,



if they think that they can thereby gain any of their petty ends. Even in their familiar intercourse with each other, the Indians seldom tell the truth in the first instance ; and if they succeed in exciting admiration or astonishment, their invention runs on without check. From the manner of the speaker, rather than by his words, is his truth or falsehood inferred ; and often a very long interrogation is necessary to elicit the real fact.

“The Esquimaux,” says Richardson, “are essentially a littoral people, and inhabit nearly five thousand miles of seaboard, from the Straits of Belleisle to the Peninsula of Alaska ; not taking into the measurement the various indentations of the coast-line, nor including West and East Greenland, in which latter locality they make their nearest approach to the western coasts of the Old World. Throughout the great linear range here indicated, there is no material change in their language, nor any variation beyond what would be esteemed in England a mere provincialism. Albert, the interpreter, who was born on the East Main, or western shore of James’s Bay, had no great difficulty in understanding and making himself understood by the Esquimaux of the estuary of the Mackenzie, though by the nearest coast-line the distance between the two localities is at least two thousand five hundred miles.

“The habit of associating in numbers for the chase of the whale has sown among them the elements of civilization ; and such of them as have been taken into the company’s service, at the fur-posts, fall readily into the ways of their white associates, and are more industrious, handy, and intelligent, than the Indians. The few interpreters of the nation that I have been acquainted with (four in all) were strictly honest, and adhered rigidly to the truth ; and I have every reason to believe that

within their own community the rights of property are held in great respect, even the hunting-grounds of families being kept sacred. Yet their covetousness of the property of strangers, and their dexterity in thieving, are remarkable, and they seem to have most of the vices, as well as the virtues, of the Norwegian Vikings. Their personal bravery is conspicuous, and they are the only native nation on the North American continent who oppose their enemies face to face in open fight. Instead of flying, like the northern Indians, on the sight of a stranger, they did not scruple, in parties of two or three, to come off to our boats and enter into barter; and never, on any occasion, showed the least disposition to yield anything belonging to them through fear." The Esquimaux winter huts are thus described :

"These buildings are generally placed on points where the water is deep enough for a boat to come to the beach, such a locality being probably selected by the natives to enable them to tow a whale or seal more closely to the place where it is to be cut up. The knowledge of this fact induced us generally to look for the buildings when we wished to land. The houses are constructed of drift-timber, strongly built together, and covered with earth to the thickness of from one to two feet. Light and air are admitted by a low door at one end; and even this entrance is closed by a slab of snow in the winter time, when their lamps supply them with heat as well as light. Ten or twelve people may seat themselves in the area of one of these houses, though not comfortably; and in the winter the imperfect admission of fresh air, and the effluvia arising from the greasy bodies of a whole family, must render them most disagreeable as well as unwholesome abodes. I have been told that when the family alone are present, the several members of it sit partly or even wholly naked."

The explorers met floes of drift-ice for the first time after rounding Cape Parry, but they encountered them more numerous as they approached Dolphin and Union Strait. On the 22d of August they had a strong gale from the west; and on the next morning they found themselves hemmed in by dense packs, extending as far as the eye could reach. The weather had hitherto been genial, but now it passed into perpetual frost, with frequent snow-storms. The expedition henceforth got on with great difficulty; and when they had penetrated well up the west side of Coronation Gulf, they were engirdled by rigorous winter, and felt compelled to abandon their boats. They, therefore, were unable to fulfil a portion of their official instructions, which directed them to examine the western and southern shores of Wollaston Land, lying north-west of Coronation Gulf; and during eleven days, from the 2d till the 13th of September, they travelled by land, up the valley of the Coppermine, to their appointed winter home at Fort Confidence, at the north-eastern extremity of the Great Bear Lake. Next summer Sir John Richardson returned to England.

In his official report to the Secretary of the Admiralty, Sir John says: "In the voyage between the Mackenzie and Coppermine, I carefully executed their lordships' instructions with respect to the examination of the coast-line, and became fully convinced that no ships had passed within view of the mainland. It is, indeed, nearly impossible that they could have done so unobserved by some of the numerous parties of Esquimaux on the look-out for whales. We were, moreover informed by the Esquimaux of Back's Inlet that the ice had been pressing on their shore nearly the whole summer; and its closely-packed condition when we left it on the 4th of September, made it highly improbable

that it would open for ship navigation later in the season.

"I regretted extremely that the state of the ice prevented me from crossing to Wollaston Land, and thus completing, in one season, the whole scheme of their lordships' instructions. The opening between Wollaston and Victoria Lands has always appeared to me to possess great interest; for through it the flood-tide evidently sets into Coronation Gulf, diverging to the westward by the Dolphin and Union Strait, and to the eastward round Cape Alexander. By the fifth clause of Sir John Franklin's instructions, he is directed to steer south-westward from Cape Walker, which would lead him nearly in the direction of the strait in question. If Sir John found Barrow's Strait as open as when Sir Edward Parry passed it on four previous occasions, I am convinced that (complying as exactly as he could with his instructions, and without looking into Wellington Sound, or other openings either to the south or north of Barrow's Strait) he pushed directly west to Cape Walker, and from thence south-westwards. If so, the ships were probably shut up on some of the passages between Victoria, Banks', and Wollaston Lands.

"Being apprehensive that the boats I left on the coast would be broken up by the Esquimaux, and being, moreover, of opinion that the examination of the opening in question might be safely and efficiently performed in the only remaining boat I had fit for the transport from Bear Lake to the Coppermine, I determined to intrust this important service to Mr. Rae, who volunteered, and whose ability and zeal in the cause I cannot too highly commend. He selected an excellent crew, all of them experienced voyageurs, and capable of finding their way back to Bear Lake without guides, should any unforeseen accident deprive them of their leader

In the month of March (1849) a sufficient supply of pemmican, and other necessary stores, with the equipments of the boat, were transported over the snow on dog-sledges to a navigable part of the Kendall River, and left there under the charge of two men. As soon as the Dease broke up in June, Mr. Rae would follow, with the boat, the rest of the crew, and a party of Indian hunters, and would descend the Coppermine River about the middle of July, at which time the sea generally begins to break up. He would then, as soon as possible, cross from Cape Krusenstern to Wollaston Land, and endeavor to penetrate to the northward, erecting signal-columns, and making deposits on conspicuous headlands, and especially on the north shore of Banks' Land, should he be fortunate enough to attain that coast. He was further instructed not to hazard the safety of his party by remaining too long on the north side of Dolphin and Union Strait, and to be guided in his movements by the season, the state of the ice, and such intelligence as he might obtain from the Esquimaux. He was also requested to engage one or more families of Indian hunters to pass the summer of 1850 on the banks of the Coppermine River, to be ready to assist any party that may direct their course that way." Mr. Rae repeated his elaborate and perilous mission in the summer of 1850.

The third and most important of the three searching expeditions of 1848 was the marine one conducted by Captain Sir James Clarke Ross. This comprised two superb ships, — the *Enterprise*, of four hundred and seventy tons and seventy men, and the *Investigator*, of four hundred and twenty tons and seventy men, both as strong as they could be made, and furnished with every possible appliance. Each was provided with a screw-propelled steam-launch, thirty-one and a half feet



long, and capable of an average speed of eleven miles an hour. Captain E. J. Bird was appointed to the command of the Investigator. The ships were instructed to proceed together to the head of Barrow's Strait; and the Enterprise, if possible, to push on to a wintering-place about Winter Harbor or Banks' Land, while the Investigator should try to find harborage somewhere about Garnier Bay or Cape Rennell. Parties were to go from the Enterprise along respectively the eastern and the western shores of Banks' Land, to cross Sir John Richardson's expedition on the mainland; and parties from the Investigator were to explore the coasts of North Somerset and Boothia.

The expedition left the Thames on the 12th of May, 1848, and entered Baffin's Bay early in July. A letter was written by Sir James Clarke Ross, from the Danish settlement of Upernavik, on the 12th of July, stating that if, after passing a second winter at or near Port Leopold, he should get no intelligence of Sir John Franklin and his party, he would send the Investigator home to England, and prosecute a further search in the Enterprise alone. The Lords of the Admiralty took alarm at the possible, or even probable, consequences of this excessive heroism, and ordered the North Star store-ship, under command of Mr. James Saunders, to get ready with all speed to take out instructions and supplies to the expedition. Her prime object was to be the replenishing of the expedition's stock of provisions, and the enjoining of the Investigator not to return to England in the way Sir James C. Ross had indicated, but to remain in company with the Enterprise; and if the North Star should not succeed in promptly fulfilling this object, she was instructed to land the supplies at the furthest prominent point she could readily reach, and by all means to keep herself

free from besetment in the ice, and to return before the close of the season. She sailed from the Thames on the 16th of May, 1849, and *did not* return that season; and she also became a subject of much public anxiety.

The Enterprise and the Investigator left Upernavik on the 13th of July, 1848; and, after running through an intricate archipelago near the mainland, they arrived, on the 20th, off Cape Shackleton, and there made fast to a grounded iceberg. They were joined there by the Lord Gambier whaling-ship, whose master informed them that, having run to the southward with the rest of the whalers, and having carefully examined the pack, he had found it all so close, compact, and heavy, as not to afford the slightest hope of any ship being able to find an opening through it that season to the west. He had, therefore, returned to the north, and expected that all the other whalers would soon follow him; and he had a very confident hope that he should get round the north end of the pack by the first week of August. But "the middle ice," as this great barrier along Baffin's Bay is called, has ever put the wits of the whale-fishers to the severest trial. The earliest date at which it has been passed in any year is the 12th of June; the latest at which it has been found impassable is the 9th of September; and the average date of the first ship of the season passing it is about the 13th of July. But in 1848 it could be passed only with extreme difficulty, and only by far rounding to the north; and, as was afterwards ascertained, the first and almost only vessel which then got past it was the Prince of Wales, of Hull, on the 6th of August, about latitude 75°.

Early on the morning of the 21st of July, the expedition cast off from the iceberg, and began to tow their way through loose streams of ice toward some lanes of water in the distance. But both on this day and on the

following few days they made slow progress, and were often in difficulty. On the morning of the 20th, when they were off the Three Islands of Baffin, in latitude  $74^{\circ}$  north, at the clearing away of a fog, they saw the Lord Gambier at some distance, standing under all sail to the southward — the unusually bad state of the ice having overturned her master's hopes, and altered his purpose. They pursued their course northward amid much perplexity; and, though still fully expecting to bore their way through the pack, they were so excessively retarded by calms and barriers, as soon to lose all hope of being able to accomplish any considerable part of their mission before the setting in of winter. They spared no exertions, but forced a progress, and even drove on at the expense of danger.

On the 20th of August, during a strong breeze from the north-east, the ships, under all sail, bored through a moderately thick pack of ice, studded with perilously large masses; and they sustained severe shocks, yet, happily, did not receive any serious damage. They gained the open water on the afternoon of that day, in latitude  $75\frac{1}{2}^{\circ}$  north, and longitude  $68^{\circ}$  west, and then steered direct for Pond's Bay. That, as is well known, is the grand scene of the whale-fishery; and thither the expedition went to inquire of any whaler's crew who might have got across to the west, and also of the Esquimaux who annually visit that locality, whether they had seen anything of the missing adventurers.

On the 22d of August they approached the shore, about ten miles south of Pond's Bay, and saw the main pack so closely pressed home to the land, some three or four miles further south, as to leave no room for ships or boats to pass. They next stood in to the bay, and paused within half a mile of the points on which the Esquimaux are known to have their summer residences;

and they fired guns every half-hour, and closely examined every part of the shore with their glasses, but did not get sight of a single human being. They then went slowly to the northward, and sometimes could not hold their own with the current, and always kept so close to the land that neither boats nor persons could escape their notice, yet still were unsuccessful.

On the 26th they arrived off Possession Bay, at the south side of the entrance of Lancaster Sound. A party there went ashore to search for traces of Sir John Franklin having touched at that general point of rendezvous, but they found nothing except a paper recording the visit of Sir Edward Parry, in 1819. The expedition now sailed along the coast of Lancaster Sound, keeping close in-shore, scrutinizing all the seaboard both from the deck and from the mast-head, and fully expecting every hour to see those of whom they were in search. Every day they threw overboard, from each ship, a cask containing papers of information of all their proceedings; and in every fog they periodically fired guns, in every time of darkness they burned rockets and blue lights, and at all times they kept the ships under such easy sail that any boat seeing the signals might have reached them. The drift of the information in the casks told the missing adventurers that no assistance could be given them at Pond's Bay, or anywhere else on the west coast of Baffin's Bay; that the *Enterprise* and the *Investigator* were on their way to form a dépôt of provisions at Port Leopold; and that, if the adventurers would go on to that place, they would either find one of the ships there, or see, along with the provisions, a notice of where she might be found.

On the 1st of September the expedition arrived off Cape York, at the east side of the entrance of Prince Regent's Inlet. A party was there sent ashore, under

very difficult circumstances, to seek for Sir John Franklin's company, or for traces of them, and to set up a conspicuous mark, with a paper containing similar information to that in the casks. From Cape York the expedition stood over toward North-East Cape, till they came to the edge of a pack about fourteen miles broad, lying in the way to Leopold Island, and too dense for them to penetrate. They wished to get with all possible speed to Port Leopold, to fulfil the promise made in their notices, and were glad to observe that the pack which now arrested them was still in motion, and might be expected soon to go to pieces under some favorable change. But, that no available time might be spent in inaction, they stood away, in the mean time, to the north shore of Barrow's Strait, to examine its numerous inlets, and to seek for a retreat harbor. They thoroughly explored Maxwell Bay, and several smaller indentations; and they got so near the entrance of Wellington Channel as to see that it was firmly and impenetrably barred from side to side by ice, which had not been broken up that season. Even Barrow's Strait was embarrassed by a greater quantity of ice than had ever before been seen in it at the same period of the year.

They now stood to the south-west to seek for a harbor near Cape Rennell; but they found a heavy body of ice extending from the west of Cornwallis's Island, in a compact mass, to Leopold Island. They coasted along this pack during stormy and foggy weather, and had difficulty during the nights in keeping the ships from being beset. With the thermometer every night at  $15^{\circ}$ , young ice formed so rapidly, and became so thick, as to defeat all their efforts to pass through some of even the looser streams. Yet, after several days of anxious and arduous toil, though the pack still lingered about Leopold Island and North-East Cape, they succeeded in



getting through it, and entered the harbor of Port Leopold on the 11th September; and, had they not got in on that day, they would not have got in at all; for, on the following night, the main pack came close home to the land, and completely sealed the mouth of the harbor.

They were happy in having reached Port Leopold, both for their own sake and for the sake of their mission. They had doubted whether the anchorage would be good; but they found it excellent, and saw at once that there could not be a better wintering place for the Investigator. Nor could there have been a fitter locality for making a grand deposit of provisions, and preparing a temporary retreat for any of Sir John Franklin's company who might be entangled among the intricacies of the archipelago. Port Leopold is situated at the junction of the four great channels of Lancaster Sound, Barrow's Strait, Wellington Channel, and Prince Regent's Inlet, and lies closely adjacent to any route which Sir John Franklin could have been likely to pursue in the event of his having had to retrogress from the vicinity of Cape Walker; so that a lodgment in it by the present expedition could scarcely escape the notice of any of Sir John's company who might happen to be proceeding from any part whatever of the archipelago toward Baffin's Bay.

An effort was made to bring the *Enterprise* out, with the view of her going westward to some harbor nearer Cape Walker. But she was irretrievably ice-bound. The pack which closed the harbor's mouth never once afforded a chance for the egress of even a boat; and across the isthmus, as far as could be discerned from the neighboring heights, the same extensive mass of heavy nummocky ice, which repelled and limited the expedition's movements before entering, remained immovable,

and formed a firm barrier all the way over to the shore of North Somerset. Even if the *Enterprise* had got out, she could not have proceeded far; and in all probability would either have been perilously beset in the pack, or compelled to sail away from it to England. On the 12th October, therefore, the two ships were laid fast in their wintering position, within two hundred yards of each other.

The earliest days after entering the harbor were devoted to the landing of a good supply of provisions upon Whaler Point. In this service the steam-launch proved of most eminent value, not only carrying a large cargo herself, but towing two deeply-laden cutters at the rate of four or five knots through the sheet of ice which then covered the harbor, and which no boat, unaided by steam, could have penetrated beyond her own length. The crews spent the dead of winter in a similar manner to those of former Arctic expeditions. But they probably felt much depressed by thinking on the fate of those whom they had been unsuccessfully seeking, and they had to contend against a rigorous cold, prolonged unusually far into the spring; so that, though they had more comforts, better appliances, and much richer fruits of experience, than the crews of Sir Edward Parry's and Sir John Ross's ships, they were not by any means so healthy. During the winter a great many white foxes were taken alive in traps, and, as they are well known to travel great distances in search of food, they were fitted with copper collars, containing engraved notices of the position of the ships and dépôts of provisions, and then set at liberty, in the hope that they would be caught by the crews of the *Erebus* and the *Terror*.

In April and the early part of May short journeys were made to deposit small stores of provisions west-

ward of Cape Clarence, and southward of Cape Sepings. On the 15th May a party of thirteen, headed by Sir James C. Ross, and taking with them forty days' provision, and a supply of clothes, blankets, and other necessaries, on two sledges, started on an exploratory journey to the south. They were accompanied for five days by a fatigue party of nearly thirty, under Captain Bird. Their object was to penetrate as far as possible in the direction which Sir John Franklin was instructed first to pursue, and to make a close scrutiny of every bay and inlet in which any ships might have found shelter. They got on with difficulty, and did their work with much toil, yet went resolutely forward.

The north shore of North Somerset trends slightly to the northward of west, till it attains its highest latitude, the highest latitude of continental America, a few miles beyond Cape Rennell; it thence trends slightly to the southward of west till it rounds Cape Bunny; and then it suddenly assumes a direction nearly due south. From high land adjacent to Cape Bunny they obtained a very extensive view, and observed that all Wellington Channel on the north, and all the space between Cape Bunny and Cape Walker on the west, were occupied by very heavy hummocky ice; but that the frozen expanse southward, along the west flank of North Somerset, was smoother. They proceeded to the south, tracing all the indentations of the coast, and heroically enduring great exposure and fatigue, but not without the pain and delay of several of their number becoming useless from lameness and debility. They stopped on the 5th of June. They were then too weak to go further, and had consumed more than half of their provisions; and they encamped for a day's rest, preparatory to their return.

Their brave leader and two of the men, however, went onward to a vantage-ground about eight or nine

miles distant This extreme point of the journey is the western extremity of a small high peninsula, situated in latitude  $72^{\circ} 38'$  north, and longitude  $95^{\circ} 40'$  west. The atmosphere at the time was peculiarly clear, and would have carried the eye to land of any great elevation at the distance of one hundred miles. But the most distant visible cape in the direction toward Boothia and Victoria Land was not further off than fifty miles, and lay nearly due south. Several small bays and inlets intervened, and though, perhaps, not forming a continuous sweep of the sea, they prove Prince Regent's Inlet at Cresswell and Brentford Bays to be separated from the western ocean by a very narrow isthmus—a distinct natural boundary between North Somerset and Boothia.

The party resting at the encampment were not idle. Lieut. McClintock, who headed them, took some magnetic observations, which had great value, on account of the near vicinity of the place to the magnetic pole. Two of the men pierced the ice, and found it to be eight feet thick, and set in a stick for ascertaining the state of the tides; and all the others who could work erected a large cairn, into which was put a copper cylinder, containing all requisite information for the guidance of any of Sir John Franklin's company who might journey along that coast. The time for expecting those missing ones there that season, on the supposition of their having abandoned their ships in the vicinity of Melville Island, had almost or altogether passed. The thaw had commenced, the suitable conditions for travelling were over, and the present explorers had, at least, the satisfaction of knowing that no wanderers from the Erebus and the Terror then lay unheeded or perishing on the coast of North Somerset.

The explorers began their return journey on the 6th

**June** They forced their way through various difficulties, and arrived at the ships on the 23d. They were so worn and injured, that every man of them, from some cause or other, went into the doctor's hands for two or three weeks. One of the assistant surgeons too, had died; several men of both crews were severely ailing; and the general health was far from good.

During the absence of the large exploring party in North Somerset, three small ones were despatched by Captain Bird in other directions. One, under the command of Lieut. Barnard, went to the north shore of Barrow's Strait; another, under the command of Lieut. Browne, went to the east shore of Prince Regent's Inlet; and the third, under the command of Lieut. Robinson, went to the west shore of that inlet. These parties were comparatively a short time away; yet all—especially the last, who penetrated several miles beyond Fury Beach—suffered from snow-blindness, sprained ankles, and debility.

Preparations were now made for leaving Port Leopold. The season was far advanced, and a strong desire was felt to have the ships as soon as possible set free, in order to push them on toward the west. But something further was first done to extend the appliances of the place as a refuge for the missing adventurers. A house was built of the spare spars of the ships, and covered with such of the housing-cloths as could be wanted. The dépôt of provisions and fuel was raised to a sufficient quantity to serve for a twelvemonth. And the Investigator's steam-launch was lengthened seven feet, and made a fine vessel, capable of conveying the whole of Sir John Franklin's party to the whale-ships.

The crews were ill able to work the ships out of the harbor, and to set them once more before the breeze;



but they went with a will to the task. The season was far advanced, and exceedingly unpromising, and seemed clearly to demand the utmost promptitude and strenuousness of exertion. At a time when most other navigable parts of the Arctic seas were open, Port Leopold continued as close as in the middle of winter. Not a foot of water was to be seen on the surface of the surrounding ice, except only along the line of gravel about the harbor's mouth; and small prospect existed that any natural opening would occur. The crews were obliged to cut a way out with saws. All hands that were at all able went to work, and made a canal two miles in length, and sufficiently wide to let the ships pass outward to the adjacent sound. They did not complete this till the 15th of August, and then had the mortification to see that the ice to seaward remained, to all appearance, as firmly fixed as in the winter. But it was wasting away along the shores, and it soon broke up, and gave promise of a navigable channel. The ships got out of the harbor on the 28th of August, exactly one fortnight less than a twelvemonth from the time when they entered it.

They proceeded toward the north shore of Barrow's Strait, with the view of making further examination of Wellington Channel, and of scrutinizing the coasts and inlets westward to Melville Island. But they were arrested about twelve miles from the shore by fixed land-ice, which had remained unbroken since the previous season, and which appeared to extend away to the western horizon in a uniform heavy sheet. They were in a loose pack, struggling with blocks and streams as they best could, and they kept hovering about the spot which afforded the greatest probability of an opening. But, on the 1st of September, the loose pack was suddenly put in commotion by a strong wind, and it





came down upon them and beset them. During two or three days the heavy masses at times severely squeezed them, and ridges of hummocks were thrown up all round them, and then the temperature fell nearly to zero, and congealed the whole body of ice into a solid mass. The crew of the *Enterprise* were unable, for some days, to unship the rudder, and when at last they released it, by means of the laborious operation of sawing away the hummocks which clove to the stern, they found it twisted and damaged ; and, at the same time, the ship was so much strained as to increase the leakage from three inches in a fortnight to fourteen inches in day.

The ice now remained for some days stationary. The lighter pieces had been so interlaced and imbricated by pressure, as to form one entire sheet across the whole width of Barrow's Strait, and away eastward and westward to the horizon ; and all the blocks and strata below them were so firmly cemented by the extreme severity of the temperature as to seem little likely to break up again that season. The ships appeared fixed for the winter ; and who could tell whether they might not be exposed to a series of as terrific perils as those which so often menaced the *Terror* with destruction in her awful ice-voyage of 1836 ?

On the wind shifting to the west, the crews, with a mixture of hope and anxiety, beheld the whole body of ice beginning to drive to the eastward, at the rate of eight or ten miles a day. They made all possible efforts to help themselves, but made them in vain, for no human power could have moved either of the ships a single inch. The field of ice which held them fast in its centre was more than fifty miles in circumference. It carried them along the south shore of Lancaster Sound, and then went down the west side of Baffin's

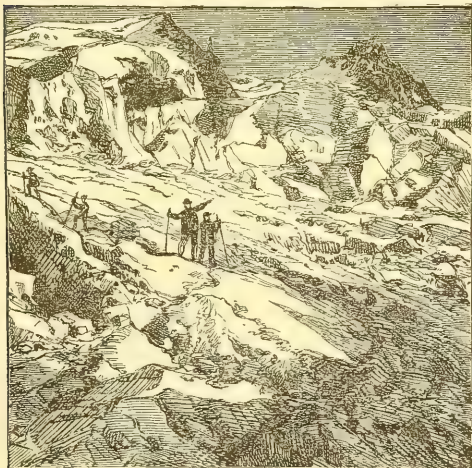
Bay, till they were abreast of Pond's Bay, and there it threatened to precipitate them on a barrier of icebergs. But, just in the very crisis of their alarm, it was rent, as if by some unseen power, into innumerable fragments, and they were set almost miraculously free.

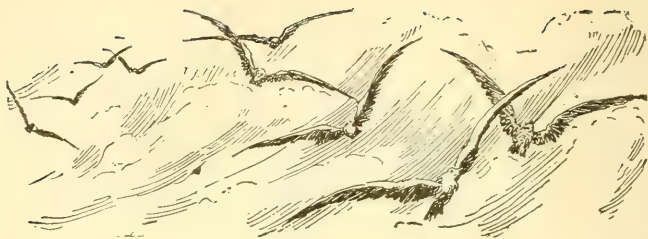
The crews sprang from despair to hope, and from inaction to energy. All sail was set, and warps were run out from each quarter to work the ships past the heavy floes. The Investigator got into open water on the 24th, and the Enterprise on the 25th. "It is impossible," says Ross, "to convey any idea of the sensation we experienced when we found ourselves once more at liberty; many a heart poured forth its praises and thanksgivings to Almighty God for this unlooked for deliverance." The harbors of Baffin's Bay were now all closed by ice, and the course to the west was barred by the pack from which the ships had just been liberated. The expedition, therefore, had no alternative but to return to England, and they arrived off Scarborough on the 3d of November, 1849. Thus ended the third of the government explorations in search of Sir John Franklin.

Lieutenant Pullen, who, it will be remembered, was despatched from the Plover on the western coast, and ordered to extend his search to the mouth of the Mackenzie, ascended that river and reached Fort Simpson on the 13th of October. Here he wintered, and, while on his way to York Factory, the following spring, received instructions by express to attempt a passage in boats across the sea to Melville Island. He immediately hurried back, and, on being supplied with four thousand five hundred pounds of pemmican and jerked venison by Rae, descended the Mackenzie. The season of 1850 proved more severe, however, than that of the previous year. Pullen found the sea, from the Mackenzie to



Cape Bathurst, covered with unbroken ice, a small channel only existing in-shore, through which he threaded his way to the vicinity of the cape. Failing in finding a passage out to sea to the north of Cape Bathurst, he remained in its vicinity, watching the ice for an opening, until the approach of winter compelled him to return to the Mackenzie. He had reached the sea on the 22d of July, and he did not quit it till the 1st of September. As he ascended the Mackenzie, ice was driving rapidly down. "It was one continued drift of ice and heavy snow-storms." He reached Fort Simpson on the 5th of October, and arrived in England to take command of the *North Star*, and join the expedition under Sir E. Belcher.





## CHAPTER XIII.

OPINIONS IN REGARD TO THE FATE OF FRANKLIN. — CLIMATE. — RESOURCES OF GAME. — REWARDS OFFERED. — REPORTS FROM WHALERS. — RE-NEWED SEARCHES. — COLLINSON AND M'CLURE. — RAE'S INSTRUCTIONS. — OTHER EXPEDITIONS, PUBLIC AND PRIVATE. — GRINNELL'S EXPEDITION. — MEETING IN THE ARCTIC SEAS. — TRACES OF FRANKLIN. — GRAVES. — SLEDGING PARTIES. — RETURN HOME.

It was the opinion of Sir John Richardson, the former companion of Franklin, that his plans were to shape his course, in the first instance, for the neighborhood of Cape Walker, and to push to the westward in that parallel; or, if that could not be accomplished, to make his way southwards, to the channel discovered on the north coast of the continent, and so on to Behring's Strait; failing success in that quarter, he meant to retrace his course to Wellington Sound, and attempt a passage northwards of Parry's Islands; and if foiled there also, to descend Regent's Inlet, and seek the passage along the coast discovered by Messrs. Dease and Simpson

Captain Fitzjames, the second in command under Sir John Franklin, was much inclined to try the passage northward of Parry's Islands; and he would, no doubt, endeavor to persuade Sir John to pursue this course, if they failed to the southward. In a private letter to Sir John Barrow, dated January, 1845, Fitzjames writes: "It does not appear clear to me what led Parry down Prince Regent Inlet, after having got as far as Melville Island before. The north-west passage is certainly to

be gone through by Barrow's Strait, but whether south or north of Parry's Group, remains to be proved. I am for going north, edging north-west till in longitude 140°, if possible."

Captain Sir John Ross records, in February, 1847, his opinion that the expedition was frozen up beyond Melville Island, from the known intentions of Sir John Franklin to put his ships into the drift-ice at the western end of Melville Island; a risk which was deemed in the highest degree imprudent by Lieutenant Parry and the officers of the expedition of 1819-20, with ships of a less draught of water, and in every respect better calculated to sustain the pressure of the ice, and other dangers to which they must be exposed. The expedition certainly did not succeed in passing Behring's Strait; and, if not totally lost, must have been carried by the drift-ice to the southward, on land seen at a great distance in that direction, from which the accumulation of ice behind them would, as in Ross's own case, forever prevent the return of the ships. When we remember with what extreme difficulty Ross's party travelled three hundred miles over much smoother ice after they abandoned their vessel, it appears very doubtful whether Franklin and his men, one hundred and thirty-eight in number, could possibly travel six hundred miles.

In the contingency of the ships having penetrated some considerable distance to the south-west of Cape Walker, and having been hampered and crushed in the narrow channels of the archipelago, which there are reasons for believing occupies the space between Victoria, Wollaston, and Banks's Lands, it is remarked by Sir John Richardson, that such accidents among ice are seldom so sudden but that the boats of one or of both ships, with provisions, can be saved; and, in such an event, the survivors would either return to Lancaster

Strait, or make for the continent, according to their nearness.

Colonel Sabine remarks, in a letter dated Woolwich, 5th of May, 1847 : " It was Sir John Franklin's intention, if foiled at one point, to try, in succession, all the probable openings into a more navigable part of the Polar Sea. The range of coast is considerable in which memorials of the ships' progress would have to be sought for, extending from Melville Island, in the west, to the great sound at the head of Baffin's Bay, in the east."

Admiral Sir Francis Beaufort, in his report to the Lords Commissioners of the Admiralty, Nov. 24, 1849, observes : " There are four ways only in which it is likely that the *Erebus* and *Terror* would have been lost — by fire, by sunken rocks, by storm, or by being crushed between two fields of ice. Both vessels would scarcely have taken fire together : if one of them had struck on a rock, the other would have avoided the danger. Storms in those narrow seas, encumbered with ice, raise no swell, and could produce no such disaster ; and, therefore, by the fourth cause alone could the two vessels have been at once destroyed ; and, even in that case, the crews would have escaped upon the ice — as happens every year to the whalers ; — they would have saved their loose boats, and reached some part of the American shores. As no traces of any such event have been found on any part of those shores, it may, therefore, be safely affirmed that one ship, at least, and both the crews, are still in existence ; and, therefore, the point where they now are is the great matter for consideration.

" Their orders would have carried them towards Melville Island, and then out to the westward, where it is therefore probable that they are entangled amongst

islands and ice. For, should they have been arrested at some intermediate place, — for instance, Cape Walker, or at one of the northern chain of islands, — they would, undoubtedly, in the course of the three following years, have contrived some method of sending notices of their position to the shores of North Somerset or to Barrow's Strait.

“ If they had reached much to the southward of Banks's Land, they would surely have communicated with the tribes on Mackenzie River ; and if, failing to get to the westward or southward, they had returned with the intention of penetrating through Wellington Channel, they would have detached parties on the ice towards Barrow's Strait, in order to have deposited statements of their intentions. The general conclusion, therefore, remains that they are still locked up in the archipelago to the westward of Melville Island.”

Captain Sir George Back, in a letter to the Secretary of the Admiralty, December 1st, 1849, says : “ You will be pleased, sir, to impress on my Lords Commissioners that I wholly reject all and every idea of any attempts on the part of Sir John Franklin to send boats or detachments over the ice to any point of the mainland eastward of the Mackenzie River, because I can say, from experience, that no toil-worn and exhausted party could have the least chance of existence by going there. On the other hand, from my knowledge of Sir John Franklin, — having been three times on discovery together, — I much doubt if he would quit his ship at all, except in a boat ; for any attempt to cross the ice a long distance on foot would be tempting death ; and it is too laborious a task to sledge far over such an uneven surface as those regions generally present. That great mortality must have occurred, and that one ship may be lost, are greatly to be feared ; and, as on all



former expeditions, if the survivors are paralyzed by the depressing attacks of scurvy, it would then be impossible for them, however desirous they might be, to leave the ship, which must thus become their last most anxious abode.

“ If, however, open water should have allowed Sir John Franklin to have resorted to his boats, then I am persuaded he would make for either the Mackenzie River, or, which is far more likely, from the almost certainty he must have felt of finding provision, Cape Clarence and Fury Point. I am aware that the whole chances of life, in this painful case, depend on food ; but when I reflect on Sir John Franklin’s former extraordinary preservation under miseries and trials of the most severe description, living often on scraps of old leather and other refuse, I cannot despair of his finding the means to prolong existence till aid be happily sent him.”

In regard to the advantages of an exploration by the way of Behring’s Strait, Sir John Richardson writes :

“ The climate of Arctic America improves in a sensible manner with an increase of western longitude. On the Mackenzie, on the 135th meridian, the summer is warmer than in any district of the continent in the same parallel ; and it is still finer, and the vegetation more luxuriant, on the banks of the Yucon, on the 150th meridian. This superiority of climate leads me to infer that ships well fortified against drift-ice will find the navigation of the Arctic seas more practicable in its western portion than it has been found to the eastward. This inference is supported by my own personal experience, as far as it goes. I met with no ice in the month of August, on my late voyage, till I attained the 123d meridian, and which I was led, from

that circumstance, to suppose coincided with the western limits of Parry's Archipelago.

"The greater facility of navigating from the west has been powerfully advocated by others on former occasions; and the chief, perhaps the only reason why the attempt to penetrate the Polar Sea from that quarter has not been resumed since the time of Cook is, that the length of the previous voyage to Behring's Strait would considerably diminish the store of provisions; but the facilities of obtaining supplies in the Pacific are now so augmented, that this objection has no longer the same force."

It was urged that, though the crews of the *Erebus* and the *Terror* had provisions with them for only three years, they could make these serve, by reduced allowance, for a somewhat longer period, and would in all probability obtain large additions to them by means of their guns. The Arctic regions, far from being so destitute of animal life as might be supposed from the bleak and inhospitable character of the climate, are proverbial for the boundless profusion of various species of the animal kingdom, which are to be met with in different localities during a great part of the year.

The air is often darkened by innumerable flocks of Arctic and blue gulls, the ivory gull, or snow-bird, the kittiwake, the fulmar petrel, snow-geese, terns, coons, dovebies, &c. The cetaceous animals comprise the great Greenland whale, the sea-unicorn, or narwhal, the white whale, or beluga, the morse, or walrus, and the seal. There are also plenty of porpoises occasionally to be met with; and, although these animals may not be the best of food, yet they can be eaten. Of the land animals, we may instance the polar bear, the musk-ox, the reindeer, the Arctic fox, and wolves.

Parry obtained nearly four thousand pounds' weight

of animal food during his winter residence at Melville Island ; Ross nearly the same quantity from birds alone, when wintering at Port Leopold.

Sir John Richardson, speaking of the amount of food to be obtained in the polar region, says : “ Deer migrate over the ice in the spring from the main shore to Victoria and Wollaston Lands in large herds, and return in the autumn. These lands are also the breeding-places of vast flocks of snow-geese ; so that, with ordinary skill in hunting, a large supply of food might be procured on their shores, in the months of June, July, and August. Seals are also numerous in those seas, and are easily shot, their curiosity rendering them a ready prey to a boat-party.” In these ways, and by fishing, the stock of provisions might be greatly augmented ; and we have the recent example of Mr. Rae, who passed a severe winter on the very barren shores of Repulse Bay, with no other fuel than the withered tufts of a herbaceous andromeda, and maintained a numerous party on the spoils of the chase alone for a whole year

With an empty stomach the power of resisting external cold is greatly impaired ; but when the process of digestion is going on vigorously, even with comparatively scanty clothing, the heat of the body is preserved. There is, in the winter time, in high latitudes, a craving for fat or oleaginous food ; and for such occasions the flesh of seals, walruses, or bears, forms a useful article of diet. Captain Cook says that the walrus is a sweet and wholesome article of food. Whales and seals would also furnish light and fuel. The necessity for increased food in very cold weather is not so great when the people do not work.

In March, 1848, the British Admiralty announced their intention of rewarding the crews of any whaling-

ships that brought accurate information of the missing expedition, with the sum of one hundred guineas or more according to circumstances. Lady Franklin, also, about the same time offered rewards of two thousand and three thousand pounds, to be distributed among the owner, officers, and crew, discovering and affording relief to her husband, or making extraordinary exertions for the above object, and, if required, bringing Sir John Franklin and his party to England.

On the 23d of March, 1849, the British government offered a reward of twenty thousand pounds "to such private ship, or by distribution among such private ships, or to any exploring party or parties, of any country, as might, in the judgment of the Board of Admiralty, have rendered efficient assistance to Sir John Franklin, his ships, or their crews, and might have contributed directly to extricate them from the ice." This, also, was meant mainly for the whalers, but was not promulged till most of them had sailed, and had no adaptation to compensate owners and masters and crews proportionately to their losses on the fishery, and, therefore, did not produce any effect.

In the spring of 1849 Mr. Parker, master of the whaling-ship *Truelove*, carried out from Lady Franklin a supply of provisions and coals for the possible use of the missing expedition, and landed them on the conspicuous promontory of Cape Hay, on the south side of Lancaster Sound.

In 1849 Dr. Goodsir, brother of the assistant surgeon of the *Erebus*, embarked in the whaling-ship *Advice*, of Dundee, on her annual trip to Baffin's Bay, in the hope that he might get early intelligence of the missing expedition. Mr. William Penny, the master of the *Advice*, was well known for enterprise and energy, and had made strenuous efforts, in 1834, to assist Sir John Rose

and his party, and now felt fervid and generous zeal to be useful in the affair of Sir John Franklin. They proceeded in the ordinary manner of a whaling cruise, yet penetrated into Lancaster Sound, and proposed to go as far as Prince Regent's Inlet; but were stopped, on the 4th of August, by a firm, compact barrier, extending quite across, in crescentic outline, from Cape York, on the south, to the vicinity of Burnet's Inlet, on the north. They were only seven days within sight of the shores of Lancaster Sound, and saw few other parts of them than such as had been closely scrutinized by the *Enterprise* and the *Investigator*; yet they searched them with a keen eye, and deposited on them several conspicuous notices.

The demand for new researches now became pressing. Three great divisions of search were adopted. These corresponded, in general sphere and character, to the three primary searching expeditions of 1848. One was marine, by way of Behring's Strait; another was overland, to the central northern coasts; and the third was marine, by way of Baffin's Bay.

The ships *Enterprise* and *Investigator* were refitted with all possible speed, to go round South America, and up to Behring's Strait. Captain Richard Collinson was put in command of the *Enterprise*, and Commander M'Clure, who had served as first lieutenant of the *Enterprise* in the recent expedition under Sir James C. Ross, was put in command of the *Investigator*. The ships were provisioned for three years, and supplied with balloons, blasting appliances, ice-saws, and many other contrivances for aiding their movements and research. Each, also, was provided with a pointed piece of mechanism, about fourteen pounds in weight, attached by a tackle to the end of the bowsprit, suited to be worked from the deck, and capable, by means of a series of sudden falls, to break ice of any ordinary thickness, and



open a passage through a floe or light pack. The ships, though dull sailers, were the only ones fit for the service which could be got promptly ready ; and, in order to expedite their progress, steamers were put in requisition to tow them in more than one part of their voyage, and particularly through the Magellan Strait, the Wellington Channel, and on to Valparaiso.

They sailed from Plymouth Sound on the 20th of January, 1850. The captains had minute orders for there guidance on the way to Behring's Strait, and with reference to the previous expeditions of the *Herald* and the *Plover* ; and were also furnished with memoranda, suggestions, and conditional instructions, for their aid in the polar seas ; but, with the exception of two or three general commands, bearing comprehensively on the grand object of their mission, they were left almost entirely to their own discretion, after they should enter the ice. They were told to reap all the advantage they could from the experience of the *Herald* and the *Plover* ; to form a *dépôt*, or point of succor, for any party to fall back upon ; to retain the *Plover*, and get her replenished from the *Herald*, and send her a wintering and cruising on nearly her former ground till the autumn of 1853 ; to keep the *Enterprise* and the *Investigator* steadily in each other's company, and onward as far as safety would permit to the east ; to cultivate the friendship of the Esquimaux, and induce them to carry messages to the Hudson's Bay Company's settlements ; to throw occasionally overboard tin cylinders containing information, and to use every precaution against getting into any position which might possibly hold them fast till their provisions should become exhausted.

Both ships made a comparatively speedy passage to Behring's Strait. On the 29th of July the *Enterprise* reached the western end of the Aleutian Chain ; on the

11th of August she reached the island of St. Lawrence ; and on the 16th of August fell in with the ice. But the weather was then so unfavorable, and the ice so thick, that Captain Collinson abandoned a purpose which he had formed to attempt to penetrate that season to Cape Bathurst. After several encounters with the ice, he reached Grantley Harbor, and there found the Plover preparing for winter quarters, and was next day joined by the Herald. On consulting with Captains Kellett and Moore, he determined, instead of wintering in the north, to proceed to Hong Kong, there to replenish his provisions, and not to set out again for the north till at least the first of April, 1851. The Investigator was later in getting through the Pacific than the Enterprise ; and Commander Moore, of the Plover, writing at sea, in latitude  $51^{\circ} 26'$  north, and longitude  $172^{\circ} 35'$  west, on the 20th of July, gave a sketch of his intended operations, and said that no apprehension need be entertained about his safety till the autumn of 1854, as he had on board full provisions of every kind for three years after the first of September, and intended to issue, in lieu of the usual rations, whatever food could be obtained by hunting parties from the ship.

Dr. Rae, it will be remembered, was left by Sir John Richardson to attempt to overtake, in the summer of 1849, an unaccomplished part of the objects of the overland expedition of 1848. This had special reference to the examination of the coasts of Victoria Land and Wollaston Land ; and now that Sir John Franklin's ships were believed to have certainly gone beyond Cape Walker, and to have probably bored their way south-westward to some position between that place and the mainland, this was deemed to be much more important than before. Early in 1850 instructions were despatched to Dr. Rae, by Governor Sir George Simpson, of the

Hudson's Bay Company, requiring him, in the event of his explorations of 1849 having been unsuccessful, to organize another expedition for the summer of 1850. This was to penetrate further, to range more widely, and to examine the coasts of Banks's Island, the coasts around Cape Walker, and the north coast of Victoria Land. Two small parties, at the same time, were to proceed westward on the mainland in the direction of Point Barrow; and one of these was to descend the Mackenzie, and explore the coast to the west of it, while the other was to pass on to the Colville River, and to descend that stream to the sea; and both were to induce the natives, by rewards and otherwise, to prosecute the search, and spread intelligence in all directions. Dr. Rae was particularly instructed to keep an ample supply of provisions, clothing, ammunition, fishing-tackle, and other necessities, at Fort Good Hope, as that seemed an eminently probable retreat to which parties of the missing adventurers might try to force their way. But in most other matters, and especially in all the details of the expedition, he was left solely to his own discretion.

The expedition equipped by the British government for renewed search by way of Baffin's Bay and Lancaster Sound comprised two strong teak-built ships, — the *Resolute* and the *Assistance*, — and two powerful screw-propelled steam-vessels — the *Pioneer* and the *Intrepid*. These ships had a tonnage, the former of five hundred, and the latter of four hundred and thirty tons, and were alike strong, commodious, elegant, and admirably appurtenanced. The steam-vessels had strength and adaptation not only for towing the ships in open channels, but for conflicting with the perils of the polar seas, and forcing a passage through small floes and thin packs of ice. Captain H. T. Austin was put in com-

mand of the *Resolute*, Captain E. Ommaney of the *Assistance*, and Lieut. Sherard Osborne of the *Pioneer*. Multitudes of officers nobly vied as volunteers to obtain the subordinate appointments; and some of the most experienced whale-fishers were obtained for the fore-castle. The instructions given were similar in scope and spirit to those of the Behring's Strait expedition, and differed chiefly in adaptation to the different route. The expedition sailed in the spring of 1850.

An expedition under the command of the veteran Sir John Ross was equipped by a public subscription, toward which the Hudson's Bay Company contributed five hundred pounds. This consisted of a schooner-rigged vessel of one hundred and twenty tons (which Sir John called the *Felix*, in honor of his late patriotic friend, Sir Felix Booth), and of a small tender, of twelve tons, called the *Mary*. They were provisioned for eighteen months, and they set sail in the latter part of April. Sir John was in excellent spirits, as full of fire and daring as in his younger years; and he enlisted in his service an old expert Esquimaux interpreter. His plan was to proceed as quickly as he could to Barrow's Strait to commence operations at Cape Hotham, on the west side of the entrance of Wellington Channel; to examine all the headlands thence to Banks's Land, and then, if still unsuccessful, to leave the *Mary* there as a vessel of retreat, and to push the search in the *Felix* alone during another year.

An expedition also was equipped at the instance of the devoted Lady Franklin, wholly by her own zeal, and mainly at her own expense. This was put under the command of Mr. Penny, formerly master of the *Advice* whale-ship, and consisted of a fine ship of two hundred and twenty-five tons, called *The Lady Franklin*, and a new clipper-brig of one hundred and twenty tons, named *the*

**Sophia** The larger vessel was fitted up at Aberdeen, and the smaller one at Dundee — both with great celerity, and in a style of the best possible adaptation to an Arctic voyage; and they also sailed in the spring of 1850. Their proposed plan of procedure was somewhat coincident with that of the government expedition; yet entirely independent, except in the way of coöperation or mutual aid, and liable to be much controlled or modified by circumstances.

Another expedition, supplementary to the preceding, was equipped at the instance of Lady Franklin. She herself defrayed about two thirds of the cost of it, by means of selling out of the funds all the money which she could legally touch; and her friends defrayed the rest. The only vessel was the *Prince Albert*, a schooner-rigged craft of ninety tons, but as fine a little structure as ever "walked the waters," and strengthened and fitted in the most artistic way for buffeting the perils of the Arctic seas. She was commanded by Commander Charles C. Forsyth, of the Royal Navy; and was served in a variety of capacities, most laboriously and dexterously, by Mr. W. P. Snow, — both volunteers, who wished no compensation but the honor of the enterprise. The object was to examine the shores of Prince Regent's Inlet and the Gulf of Boothia, and to send out travelling parties to explore the west side of the land of Boothia down to Dease and Simpson's Strait. At the time when Sir John Franklin sailed, a belief was general that Boothia was an island, and that Prince Regent's Inlet communicated with the Polar Sea through Dease and Simpson's Strait; so that, in the event of his being baffled in finding a north-west passage by way of Cape Walker, or up Wellington Channel, he would very probably enter Prince Regent's Inlet, with the view of passing round the south of Boothia



Hence the present expedition. The Prince Albert sailed from Aberdeen on the 5th of June.

An expedition also was equipped in America. This was got up mainly by the exertions and at the cost of Henry Grinnell, Esq., a merchant of New York, but was put in order and sent forth by the United States Navy department. It consisted of two vessels, the *Advance* and the *Rescue*, of respectively one hundred and twenty-five and ninety-five tons; and was put under the command of Lieut. De Haven, who had served in the United States Exploring Expedition, under Commodore Wilkes, in the Antarctic seas. It sailed from New York on the 24th of May, and was accompanied for two days in his yacht by Mr. Grinnell. Its object was to push promptly forward, in any way it could, in the direction of Melville Island and Banks's Land; to winter wherever it might happen to stick fast, in the pack, or out of the pack; and to move on and make search as long as it might be able, in any direction which should offer most promise of success.

The *North Star* transport, which left England in 1849 to convey stores to the expedition under Sir James C. Ross, may in some sense be regarded likewise as one of the exploring ships of 1850. She became beset in Melville Bay on the 29th of July, 1849, and gradually drifted till the 26th of September; and being then abreast of Wolstenholme Sound, and able to bore a way through the loosened ice, she pressed up to the head of that sound, and there wintered in lat.  $76^{\circ} 33' N.$ , being the most northerly position in which any vessel, except Dr. Kane's, has been known to be laid up. She lost four of her crew during the dismal seclusion of the Arctic night, but not from causes attributable to the climate; and she found a large proportion of the preserved meats she had brought from England to be of bad quality, and was obliged to

SEAL FISHING IN THE ARCTIC SEAS.





put the surviving crew upon two-thirds allowance. She got out of Wolstenholme Sound on the 1st of August, 1850, passed through "the middle ice" in the centre of Ross's Bay, reached Possession Bay on the evening of the 8th, left despatches there, and arrived at Leopold on the 13th. She found that harbor full of ice, and was not able to land stores at it, and with great difficulty communicated with the shore by boat, to leave a notice of her visit. She next went toward Port Bowen, but found that place entirely blocked with ice; and then stretched across out of the inlet, and spoke first the Lady Franklin, and afterwards the Felix, and got intelligence from them of the great searching operations of that season. She next proceeded to Navy Board Inlet, and there, on the mainland, behind Wollaston Island, she put ashore her surplus stores of fuel and provisions. She had suddenly to scud away before a gale; and, running out of the mid-channel of Lancaster Sound, on the 28th of September she arrived in Scotland.

The several expeditions of 1850 up Baffin's Bay encountered enormous difficulties from "the middle ice" and the Melville Bay barrier. Though the ships sailed from widely different points at widely different periods, they nearly all got into view of one another, and most were for some time closely in company. All were at several times arrested or beset; and the best and largest spent five weeks in effecting a northward distance of thirty miles. The perils which they braved were only a degree or two less terrible than those of the Terror in Hudson's Bay in 1836. The crews of the smaller vessels were repeatedly all prepared, with their bundles and loose stores, to leap on the ice from expected shipwreck, and to betake themselves to sledging or foot-travelling for escape to the land. The environment, by massive towering icebergs, was sometimes so complete

as to exclude every perceptible outlet, sometimes so close as almost to rub the ships, and sometimes so unsteady or whirling as to threaten overwhelming somersets. Some whaling-ships which got early to the north, though commanded by the most experienced masters, and manned by the most select crews, turned about and sailed back to the south, fully believing the penetration of Melville Bay that season to be either an impossibility or practicable only at fearful hazards.

The expedition ships, however, were little, if at all, daunted, conscious of possessing higher powers, and resolutely determined to get on. The means which they used for forcing their way comprised all the known methods of boring, tracking, and cutting, and were sometimes effected with prodigious labor and indomitable perseverance; and they comprised also, in the case of the British government expedition, the smashing of all thin floes, and sometimes the perilous assault of thick ones, by the impetus of the steamers. The smaller vessels of the private expeditions might have seemed incompetent for such rough work; but, though ill able to attack, they were well able to run and manœuvre; and, on the average of the voyage through the ice, they were found to be fully as safe, and more than fully as manageable, as the large ships.

The little Prince Albert, in particular, did wonders, and on one occasion, disdaining to lie ice-fast, she made a daring attack upon a neck of ice which lay between her and an open piece of water. With a tremendous blow, that for the moment made her rebound and tremble, she struck the ice in the exact point, and rent it into fragments.

The steamers, for a long way, accelerated the progress not only of the government ships, but also of the *Felix* and the Prince Albert, by towing them through



pervious masses of loose ice, and by forcing a passage through impediments. One of the scenes, described by Snow, in this part of the voyage illustrates its arduousness and novelty: "We came to a heavy nip, and all the vessels had to be made fast to a floe until a passage could be cleared. The Pioneer, immediately on casting off the Resolute's tow-rope, was directed to dash at the impediment, under full power. This she did boldly and fearlessly, rushing stem on, and fairly digging her bows into it in a most remarkable manner. Backing instantly astern, and then again going ahead, she performed the same manœuvre, fairly lifting herself up on end, like a prancing war-horse. By this time the nip was too heavy to be so broken, though both the steamers had previously cleared many similar impediments in that manner. It was now, however, necessary to resort to other means; and, accordingly, parties from every ship were sent on the ice to assist in blowing it up, and removing the fragments as they got loosened. The same plan as that, I believe, adopted in blasting rocks, was here pursued. Powder was sunk to a certain depth, a slow match applied, and at a given signal ignited. Due time was allowed, and then the enormous masses would be seen in convulsive movement, as though shaken by a volcanic eruption, until piece upon piece was sent in the air, and the larger bodies were completely rent into innumerable fragments. The steamers then darted forward, and with warps dragged out the immense blocks that had been thus dissevered. Several efforts had to be made by blasting and forcing the ice before a passage could be cleared."

On the 14th of August the Lady Franklin and the Sophia were for a little while in company with the other ships, and then, amidst deafening cheers, stood away, under all sail, to the west. On the following night,

when the little fleet were off Cape Dudley Digges, the *Intrepid*, the *Assistance*, and the *Felix*, parted company to make a search in Wolstenholme Sound. On the 15th the *Pioneer*, the *Resolute*, and the *Prince Albert*, were quite into the "North Water," away from the ice ; and on the 16th Captain Austin announced his intention to call at Pond's Bay and Possession Bay. He expressed a wish that the *Prince Albert* would examine the south shore of Lancaster Sound from Cape Hay onward ; and stated that the *Intrepid* and the *Assistance* would examine the north shore, and come to a rendezvous with the *Resolute* somewhere about the mouth of Wellington Channel.

Early on the 21st of August the *Prince Albert* arrived off Port Leopold. A landing was effected with great difficulty in a gutta-percha boat, and could not have been effected at all in any ordinary boat. The house constructed by Sir James C. Ross was found much rent in several places on the top and at the sides, but otherwise in excellent order, and quite fit to be a temporary retreat to any forlorn or cast-away Arctic adventurers. The stores were abundant and in prime condition. The steam launch seemed a noble little vessel, in which a brave-hearted party might venture anywhere, and was so placed that she could very easily be run into the sea. But not a trace was found of the visit of any wanderer from the *Erebus* and the *Terror*.

The *Prince Albert* now stood away down Prince Regent's Inlet ; and towards evening, when she was gliding past the ice of Batty Bay, her crew were startled for a moment into a thrill of hope. The men on deck thought they heard a gun fired on shore : the officers ran to scrutinize the land through their glasses aloft ; the vessel was steered closer to the bay : the howitzer was cleared away, and fired ; but not the slightest sign

of life could be seen ; not the faintest answering sound was heard. The supposed shot had been merely the falling of a piece of rock, or the collision of some heavy masses of ice.

Next morning the vessel was off Fury Beach, and in a thick fog ; and when the fog cleared away, she proved to be in a bight of the ice, within a few yards of a continuous, heavy, hummocky expanse, which contained not, as far as it could be seen from the crow's nest, one pool or crack, or the slightest promise of an opening. The officers examined this long and anxiously, and were forced to conclude that any attempt to penetrate it that season would be impracticable. They gloomily but irresistibly felt the specific object of their voyage, the examination of the shores of Boothia, to be defeated ; and saw at once that they must turn about and lose little time in returning to Britain. But they resolved first to look at some of the most accessible shores and headlands about the throat of Barrow's Strait, and a brief way up Wellington Channel.

During twenty-four hours, Mr. Snow, with a small boat party, made a romantic land search of the coast around Batty Bay, and on to Port Leopold ; and he found the latter place far more blocked up than on the 21st, and did not get away from it without enormous labor and difficulty. When he again reached his vessel they had to stand well away to avoid collision with a heavy stream of ice which filled a large portion of the adjacent sounds. When they got a little way into Barrow's Strait, they saw coming right towards them a schooner, which they first supposed to be the *Felix*, but afterwards found to be the American brig *Advance*. On the morning of the 24th, they were standing across to Cape Hurd, under a clear sky and with a moderate breeze, while a heavy pack was visible from the crow's nest,

extending all along the coast of North Somerset, from outside of Leopold Island on the east, to the vicinity of Cape Rennell, where it appeared to enlarge, and began to take a curved direction toward Cape Hotham. The *Advance* was still behind them ; the *Lady Franklin* and the *Sophia* were to windward, struggling along shore in the vicinity of Radstock Bay ; and, as the day wore on, three more ships were observed at the mouth of Wellington Channel.

An hour before noon of the 25th, when the *Prince Albert* was off Cape Spencer, her officers saw that she must stop. An extensive pack was then a short distance ahead, broken only by a few lanes of water, through which the ships in advance had evidently passed ; and the wind was blowing in a direction, happily, quite favorable for carrying these ships rapidly on to the regions of most desirable search, but fitted also to make a prompt closure of the pack against any return that season to the east. If the *Prince Albert* should now go forward more than a mile or two, she might be suddenly caught by the ice, and helplessly and uselessly shut up for the winter. At noon, therefore, she bore up when about midway between Cape Spencer and Point Innes ; and then Mr. Snow went to the mast-head to take a last view of the position and seeming prospects of the several exploring vessels.

Cape Hotham was seen to the west enveloped in a thick haze. The *Assistance* appeared some distance to the north-east of it, endeavoring to get to it, seemingly either in a hole of water or along a lane. The *Lady Franklin* was not far from the *Assistance*, but, probably, about mid-channel, either working toward Cape Hotham, or trying to get right away to the west. The *Sophia*, also under all sail, was some distance astern of the *Lady Franklin*, and more to the east. The *Res*

cue was still further to the east, considerably in-shore, and apparently beset. All these vessels were among heavy ice. The *Advance* could not be seen, but was supposed to be behind one of the points of land ; and she was afterwards spoken in the vicinity of Cape Riley, close in-shore, fast to an iceberg. The *Intrepid*, too, was not then visible, but had been seen in the morning. All Wellington Channel, as far as the eye could reach, was filled with one solid pack, broken only here and there by a small lane. Some high land, appearing dim and filmy from haze and distance, was seen toward Cape Bowden, trending apparently to the north-west. One heavy pack extended athwart all the south-west, and seemed to be impenetrable. The only clear water visible lay immediately around the *Prince Albert*, and backward along the way by which she had come.

On the same day, soon after the *Prince Albert* had turned her bow homeward, a flag-staff, like a signal-post, was observed on Cape Riley. The officers, supposing this to have been set up by a party from some one of the exploration ships, sent a boat ashore to ascertain what it meant. A cylinder was found at the flag-staff, containing a notice that the officers of the *Assistance* and the *Intrepid* had landed on Cape Riley on the 23d ; that they had collected there distinct traces of an encampment by some party belonging to the royal navy of Britain ; that they had found traces of the same party on Beechey Island, and that they purposed to proceed thence to Cape Hotham and Cape Walker, in search of further traces.

The little boat-party from the *Prince Albert* were too zealous to be satisfied with this mere notice. They looked eagerly around, and soon observed five spots on which tents seemed to have been fixed, and also obtained a piece of navy rope, a piece of canvas, a chip



of timber, and a number of meat-bones. These, all poor and pitiful though they might seem of themselves, seemed to throw so perceptible a light on at least the commencement of the mystery of the Franklin expedition, that they were esteemed a precious prize.

The Prince Albert arrived at Aberdeen on the 1st of October; and the relics from Cape Riley were speedily sent to the Admiralty, and subjected there to a rigorous scrutiny. The piece of rope was found to be of navy-yard manufacture, not later than 1841; the piece of canvas to have a corresponding character; the chip of timber to have a recent cut, with seemingly an European axe; the meat-bones to bear exactly the marks of a ship's provisions used about five years back; the reported tent-marks to be nearly such as might be expected from a party making a long stay for the purpose of scientific observation; and the entire circumstances of the traces on Cape Riley unaccountable by any known or supposable event, except a prolonged visit, in 1845 or 1846, by a party from the Erebus and the Terror.

The first traces of the missing ships were discovered by Captain Ommaney, in the Assistance, at Cape Riley, on the 23d August, 1850. The cape is a point at the eastern entrance of Wellington Channel; about three miles west of it rises the bold abrupt coast of Beechey Island; and between the shores of this isle and the mainland lies a bay to which extraordinary interest is now attached. On its coast were observed numerous sledge-tracks; and at Cape Spencer, about ten miles from Cape Riley, up Wellington Channel, the party discovered the ground-place of a tent, the floor neatly paved with small smooth stones.

Around the tent a number of birds' bones, as well as remnants of meat-canisters, seemed to indicate that it

had been inhabited for some time as a shooting station and a look-out place, for which latter purpose it was admirably chosen, commanding a good view of Barrow's Strait and Wellington Channel.

Some sledge-tracks led northward for about twenty miles, but the trail ceased south of Cape Bowden, and an empty bottle and a piece of newspaper were the last things found. The results of examining Beechey Island must be given in more detail. Lieut. Osborne says : " A long point of land slopes gradually from the southern bluffs of this now deeply interesting island, until it almost connects itself with the land of North Devon, forming on either side of it two good and commodious bays. On this slope a multitude of preserved-meat-tins were strewed about ; and near them, and on the ridge of the slope, a carefully-constructed cairn was discovered ; it consisted of layers of fitted tins, filled with gravel, and placed to form a firm and solid foundation. Beyond this, and along the northern shore of Beechey Island, the following traces were then quickly discovered : the embankment of a house, with carpenters' and armorers' working-places, washing-tubs, coal-bags, pieces of old clothing, rope, — and, lastly, the graves of three of the crew of the *Erebus* and *Terror*, bearing date of the winter of 1845-6. *We, therefore, now had ascertained the first winter quarters of Sir John Franklin.*

" On the eastern slope of the ridge of Beechey Island a remnant of a garden (for remnant it now only was, having been dug up in the search) told an interesting tale ; its neatly-shaped, oval outline — the border carefully formed of moss lichen, poppies, and anemones, transplanted from some more genial part of this dreary region — contrived still to show symptoms of vitality ; but the seeds which, doubtless, they had sowed in the garden, had decayed away. Nearer to the beach, a heap of cinders

and scraps of iron showed the armorers' working-place and, along an old water-course, now chained up by frost, several tubs, constructed of the ends of salt-meat casks, left no doubt as to the washing-places of the men of Franklin's squadron. Happening to cross a level piece of ground, which as yet no one had lighted upon, I was pleased to see a pair of cashmere gloves laid out to dry, with two small stones on the palms to prevent their blowing away; they had been there since 1846. I took them up carefully, as melancholy mementoes of my missing friends. In another spot a flannel was discovered; and this, together with some things lying about, would, in my ignorance of wintering in the Arctic regions, have led me to suppose that there was considerable haste displayed in the departure of the Erebus and Terror from this spot, had not Captain Austin assured me that there was nothing to ground such a belief upon, and that, from experience, he could vouch for these being nothing more than the ordinary traces of a winter station; and this opinion was fully borne out by those officers who had, in the previous year, wintered in Port Leopold, one of them asserting that people left winter quarters too well pleased to escape, to care much for a handful of shavings, an old coal-bag, or a washing-tub."

The most interesting traces of winter residence were the graves of Franklin's three seamen. Each grave was marked by an oaken head and foot board, and the inscriptions were as follow:

"Sacred to the memory of J. Torrington, who departed this life January 1st, 1846, on board of H. M. S. Terror, aged 20 years."

"Sacred to the memory of J. Hartnell, A.B., of H. M. S. Erebus, died January 4th, 1846, aged 23 years

*Thus saith the Lord of Hosts, Consider your ways. — Haggai 1 : 7.*"

"Sacred to the memory of Wm. Braine, R.M., of H. M. S. Erebus, died April 3d, 1846, aged 32 years. *Choose ye this day whom ye will serve. — Josh. 24 : 15.*"

Lieut. De Haven, of the Advance, landed on Cape Riley on the morning of the 25th August, where he examined the traces of Sir John Franklin, before described, and erected a second signal-post. On the same day the Prince Albert visited the place, and by her, as we have seen, the first intelligence of the discovery was carried to England. Afterwards Captain Penny and his officers examined Beechey Island and the whole neighborhood very carefully and minutely. But the thorough search made by all these parties failed to discover any memorandum or record to indicate Franklin's past efforts or future intentions.

All that could be learned from the traces discovered was, that Franklin's ships wintered, in 1845-6, on the south side of Beechey Island, and that three of his men died at that point. The mortality does not exceed that of previous expeditions ; and we may therefore conclude that the expedition was in highly effective order when it left that anchorage, with only a moderate inroad into its stock of preserved meats, the seven hundred empty tins found on the island forming but a small proportion of the twenty-four thousand canisters with which the ships were supplied. .

How long Franklin's ships remained at Beechey Island, when and under what circumstances they left, and what course they pursued, were mere matters of conjecture, as to which various opinions have been formed. Some experienced officers believed that the expedition did not leave its winter anchorage till the end of August or beginning of September, 1846. It was also inferred, from

some appearances, that it left suddenly; that probably a great and unexpected disruption of the ice had summoned the crews to resume progress in the ships; but this was contested by other officers of equal experience, who contended that there could have been no hurry in removing from Beechey Island, as everything bore the stamp of order and regularity, utterly forbidding the idea that Franklin had been forced away by the ice.

On the 8th September, 1850, most of the searching vessels got once more free from the ice, and unfurled their sails in open water, along the south side of Cornwallis Island. They bore boldly away, in the hope of penetrating well to the west, but were soon arrested by a vast floe, which extended from the south-west end of Griffith Island, as far as the eye could reach. They kept close to this, and strove with it, from the 10th till the 13th, and then began again to get forward; yet proceeded only a short distance, amid great embarrassment and severe exertion, when they were compelled to stick fast for the winter. The government ships were locked up in the ice between Cornwallis Island and Griffith Island; and all the others were sufficiently near to admit of easy communication among the whole squadron.

Arrangements were early made for performing exploratory journeys with sledges in spring. Captain Austin superintended those for the lands and islands along what may be called Parry's Strait, — the band of sea westward from Barrow's Strait to Melville Island, and the north end of Banks's Land; and Captain Penny undertook to conduct the search of Wellington Channel. Sledges were sent out, before the severest period of the winter, to place provisions in dépôt for the use of the explorers in spring; and exercises of walking and sledge-dragging were afterwards, in all favorable weather, prac-



tised near the ships, to keep the men vigorous, and to train them for their journeyings.

On the 12th of April the parties for the westward exploration, amounting to one hundred and four men, with fourteen sledges, were all ready, and proceeded, under the command of Captain Ommaney, to an encampment at the north-west end of Griffith Island. There they underwent a close inspection by Captain Austin, and spent three days in repose, and in waiting for the abatement of a tempestuous wind. On the evening of the 15th they united in a special prayer to the Divine Being for protection and guidance, and then, with enthusiastic determination, started on their arduous enterprise.

Six of the parties were "extended" ones, — to go to the utmost possible distance, — three along the south shore, and three along the north shore. The first sledge on the south shore, the *Reliance*, under Captain Ommaney, travelled four hundred and eighty miles, discovered two hundred and five miles of previously unknown coast, and was absent sixty days. The second, the *True Blue*, under Lieut. Osborne, travelled five hundred and six miles, discovered seventy miles of coast, and was absent fifty-eight days. And the third, the *Enterprise*, under Lieut. Browne, travelled three hundred and seventy-five miles, discovered one hundred and fifty miles of coast, and was absent forty-four days. In this travelling sails were occasionally hoisted on the sledges, and large kites were also attached. When the wind was high, these aids propelled the sledge very rapidly, and the whole of the party then rode; but when the wind fell, the sledges, with their provisions and stores, had to be dragged by main force over the ice by the men harnessed to them. The most western point reached was the extreme one of the *True Blue*, and is

situated in west longitude  $103^{\circ} 25'$ , almost half way between Leopold Island and Point Turnagain on the American continent.

The first sledge on the north shore, the *Lady Franklin*, under the command of Lieut Aldrich, travelled five hundred and fifty miles, discovered seventy miles of coast, and was absent sixty-two days. The second, the *Perseverance*, under the command of Lieut. M'Clintock, travelled seven hundred and sixty miles, discovered forty miles of coast, and was absent eighty days. And the third, the *Resolute*, under the command of Surgeon Bradford, travelled six hundred and sixty-nine miles, discovered one hundred and thirty-five miles of coast, and was absent eighty days. Lieut. M'Clintock's party achieved the furthest westing of the three ; and the furthest, indeed, which has ever been attained in the polar seas, — a point in latitude  $74^{\circ} 38'$  and west longitude  $114^{\circ} 20'$ .

He left the ships on the 15th of April, and, taking a course due west, reached Point Griffith, on the eastern shore of Melville Island, on the 11th of May. On the 21st he sighted Winter Harbor ; but, there being neither ships, tents, nor any sign of human habitation, to be seen, he deferred any close scrutiny of it until his return. By the 27th of May he had reached Cape Dundas, at the western extremity of Melville Island ; and on the following day, ascending a high cliff, made out the coast of Banks's Land.

To the north of Banks's Land, at a distance from it of about seventy miles, he discovered a range of land apparently running nearly due west. "This does not present steep cliffs, but a bold and deeply indented coast ; the land rising to the interior, and intersected by valleys rather than ravines." The sea he imagined to continue to the westward. Following the coast of



RAPID TRANSIT IN THE ARCTIC REGIONS.



Melville Island to the north-east, he entered Liddon Gulf, and here saw fragments of coal of good quality. Leaving the shore, he crossed the gulf to gain Bushman Cove, where Parry, in his journey across the island, in 1820, had left the "strong but light cart," in which he had carried his tent and stores. On the 1st of June M'Clintock reached the west point of the cove, and, leaving two men to prepare supper, he commenced a search, with four others, for Parry's encampment of the 11th of June, 1820 :

"On reaching the ravine leading into the cove," he says, "we spread across, and walked up, and easily found the encampment, although the pole had fallen down. The very accurate report published of his journey saved us much labor in finding the tin cylinder and ammunition. The crevices between the stones piled over them were filled with ice and snow; the powder completely destroyed, and cylinder eaten through with rust, and filled with ice. From the extreme difficulty of descending into such a ravine with any vehicle, I supposed that the most direct route, where all seemed equally bad, was selected; therefore sent the men directly up the northern bank, in search of the wheels which were left where the cart broke down. They fortunately found them at once; erected a cairn about the remains of the wall built to shelter the tent; placed a record on it, in one tin case within another. We then collected a few relics of our predecessors, and returned with the remains of the cart to our encampment. An excellent fire had been made with willow stems; and upon this a kettle, containing Parry's cylinder, was placed. As soon as the ice was thawed out of it, the record it contained was carefully taken out. I could only just distinguish the date. Had it been in a better



state of preservation, I would have restored it to its lonely position."

As the weather was misty, M'Clintock did not explore the head of the gulf, but struck directly across the land for Winter Harbor. It was evident that no one had visited the place since Parry's departure, in 1820.

On the shore, above Winter Harbor, is a large sandstone boulder, near the site of Parry's observatory, on the flat face of which Mr. Fisher, his surgeon, had cut this inscription :

His Britannic Majesty's  
Ships HECLA and GRIPER,  
Commanded by  
W. E. Parry and Mr. Liddon,  
Wintered in the adjacent  
Harbor 1819-20.

A. Fisher, Sculpt.

This inscription, M'Clintock says, appeared quite fresh. A hare, discovered at the foot of this rock, was so tame that she entered the tent, and would almost allow the men to touch her. "I have never seen," he says, "any animal, in its natural state, so perfectly fearless of man ; and there cannot be a more convincing proof that our missing countrymen have not been here. A ptarmigan alighted on the rock, and was shot, without in the least disturbing puss as she sat beneath it."

M'Clintock carved the figures 1851 on the rock, and left it and the hare.

On the 6th June he left Winter Harbor, and reached the ships on the 4th of July. The latter part of his journey was fatiguing, from the extensive pools of water in the ice ; but all his men arrived in excellent health and spirits. He was out eighty days, and had travelled seven hundred and seventy miles. Several reindeer, musk-oxen, and bears, were shot, besides numerous birds ; and the food thus obtained was of

very material importance to the people. They travelled when the cold was so intense that bottles of water, carried by the men in their breasts, froze after an hour or so ; salt pork broke like suet, and rum thickened. This journey made it certain that Franklin had not passed west of the Parry Islands.

The other two parties moved in higher latitudes, and were stopped a little west of Sabine Island, yet they traversed tracts and encountered incidents of high interest.

The parties of less limited range than the "extended" ones deposited provisions, set up marks, made observations, ascertained positions, and effected minor explorations ; and were absent during periods of from twelve to thirty-four days. They may seem to have had easier work than the others ; yet they suffered more severely, for no fewer than twenty-eight of their men were frost-bitten, and one died from exhaustion and cold. The extended parties got back in good health, and needed only a little rest and comfort to repair the effects of their privation and fatigue. But not one of all the parties, near or remote, obtained the slightest trace of the missing adventurers ; and Captain Austin, after receiving and considering well the reports of all, "arrived at the conclusion that the expedition under Sir John Franklin did not prosecute the object of its mission to the southward and westward of Wellington Strait."

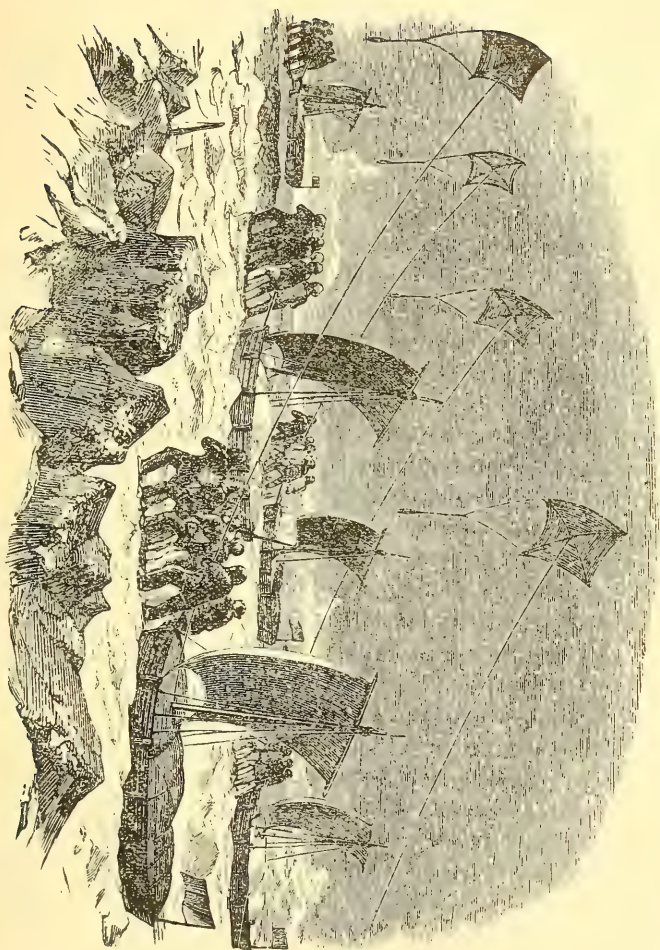
The sledge-parties for the exploration of Wellington Channel amounted to six, and comprised forty-one men, and were officered by Captain Stewart, Messrs. Marshall, Reid, and J. Stuart, and Surgeons Sutherland and Goodsir. They started on the 17th of April, under the general superintendence of Captain Penny ; but they soon encountered severe weather, and were buffeted

and baffled by it for a series of days, and compelled to return; and on the 6th of May, after special prayer to God for support, they again started. Some coursed so far and so curvingly as to make a near approach to the most northerly of Captain Austin's parties; and all figured largely and respectably in the squadron's aggregate of exploits. But their chief feat — the feat, at least, of those on the channel and west of it — was a discovery which put a stop to their progress toward the north, and gave an entirely new complexion to the search in which they were engaged, — the discovery of a wide westward strait of open water, lying along the further side of the lands which flank Barrow's Strait and Parry's Strait.

Captain Penny personally shared in this discovery, and made great exertions to follow it up. The explorers, proceeding up Wellington Channel, arrived in latitude  $75^{\circ} 22'$  at Cape Duhorn, and thence ten miles north-westward to Point Decision. Penny, on the 15th of May, went from this point, over the ice, north-west by north, to an island which he called Bailie Hamilton Island. The ice was in a very decayed state; and on the 17th, after travelling round the island, first in a north-easterly and next in a north-north-westerly direction, he arrived at the open strait, saw in it twenty-five miles of clear water, and discovered a headland fifteen miles distant, west by north, over-canopied by a dark sky, which indicated an expanse of open water on the further side. This point was found to be in latitude  $76^{\circ} 2'$  and west longitude  $95^{\circ} 55'$ ; and the strait received the name of Victoria Channel.

Penny hastened back to the ships for a boat, and used every exertion to have one promptly mounted on sledges and sent forward; but he did not get it up to the strait without vast effort, and some tantalizing delays. But

SLEDDING WITH SAILS AND KITES.







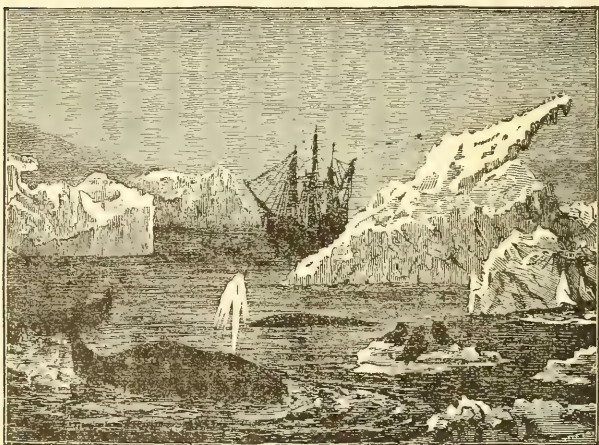
at length he launched it, loaded it, and pushed off. He had proceeded only ten miles, when he was obliged to seek refuge in a bay from a westerly gale and a strong head sea; and he afterwards contended much and almost constantly with unfavorable winds and rapid tides; yet he succeeded in examining three hundred and ten miles of coast, and did not desist till his stock of provisions began to fail. He put about on the 20th of July, and made his way to the ships amid constant rain and tempest, insomuch that, in the route over the ice, he had to ford rapid streams.

Penny thus ranks high as a discoverer; but as to the immediate object of his adventures, he had all his labor for nothing. He found not a trace of the *Erebus* and the *Terror*; yet he confirmed his convictions that they had gone up Wellington Channel and along Victoria Channel.

The American explorers were prevented from taking any part in the searching operations of the spring, by their experiencing the same kind of involuntary ejection from Lancaster Sound which befell Sir James Ross's expedition in the *Enterprise* and the *Investigator*. Their vessels were frozen in opposite Wellington Channel, and were carried thence to the east, slowly and rigidly, and in stern defiance of all possible resistance by man, to a point south of Cape Walsingham. They drifted a linear distance of at least one thousand and fifty miles, and suffered much from the commotion of the ice, and were not set free till the 10th of June.

Captain Austin seems to have concurred with Sir John Ross in the opinion that the *Erebus* and the *Terror* had gone back to Baffin's Bay. After the failure of searches for further traces of them west and north of the mouth of Wellington Channel, Austin supposed that they probably tried to reach the Polar Sea through Jones's

Sound, which opens off the north side of the upper part of Baffin's Bay. He accordingly went round to that place with his two steamers, and explored it. He found it about sixty miles wide at the entrance,—a width which greatly exceeds that given it in the Admiralty charts; and he sailed about forty-five miles up its southern shore, and was there arrested by a fixed barrier of ice; and he then sailed along the face of that barrier, twenty-five miles, to the northern shore, and traced that shore down to the entrance. But he saw nothing to indicate that the *Erebus* and the *Terror* had been there; and he judged, from well-defined appearances to the west, that the sound is closed by land not very far above the point which he reached, and has no communication with the Polar Sea. He then thought all further attempts at exploration either useless or inconsistent with his instructions, and set sail for England, where he arrived in the autumn of 1851.





## CHAPTER XIV

**FURTHER PARTICULARS OF THE SEARCHING EXPEDITIONS.—SIR JOHN ROSS'S VOYAGE. — RESULTS. — CARRIER-PIGEONS. — PENNY'S EXPEDITION. — DR. SUTHERLAND'S SCIENTIFIC OBSERVATIONS. — GLACIERS AND ICEBERGS. — WINTER CLIMATE. — ANECDOTES. — ESQUIMAUX DOGS. — USE OF SNOW. — FIRST GRINNELL EXPEDITION. — ADVENTURES IN THE ICE. — WINTER IN THE ARCTIC OCEAN. — DANGEROUS DRIFTING. — BREAKING UP OF THE ICE. — RETURN.**

HAVING sketched generally in the last chapter the progress of the vessels which coöperated, in 1850, in prosecuting the search for Sir John Franklin from the direction of Baffin's Bay, we shall now take up each expedition separately, and present such further details as may tend to add interest and completeness to our history of their proceedings.

Of the four vessels comprising the squadron of Commodore Austin, and also of the Prince Albert, we have already related all that is important, concluding with their safe return to England.

Sir John Ross, in the *Felix* discovery yacht, with her tender, the *Mary*, after obtaining an Esquimaux interpreter at Holsteinborg, and calling at Whale Fish Islands, proceeded northward through Waygat's Straits, and overtook Commodore Austin's squadron on the 11th of August, 1850. Arrangements were made with that officer for a combined examination of every part of the eastern side of a north-west passage, in which it was probable that the missing ships could be found. On the

13th of August, in company with Lieut. Cator in the *Intrepid*, Ross held communication with a party of Esquimaux near Cape York, who told him a story, the purport of which, according to his interpreter, was that in the winter of 1846 two ships were crushed in the ice in the direction of Cape Dudley Digges, and afterwards burned by a fierce tribe of natives; and that their crews, some of whom were described as wearing epaulets, were subsequently killed by the natives. Although Mr. Petersen, the interpreter attached to the *Lady Franklin*, which lay a few miles off, wholly discredited this story, and gave a translation of the Esquimaux communication wholly at variance with the other, it was thought of sufficient consequence by Capt. Austin to merit an investigation. Meantime the further information was received that a ship had passed the last winter safely housed in Wolstenholme Sound. A party, taking both interpreters, was accordingly sent to examine Wolstenholme Sound; and by them it was ascertained that the ship which wintered there was no other than the *North Star*, and that in all probability that circumstance was the whole foundation of the Esquimaux story, whatever it might have been. Nevertheless, Sir John Ross, who was long ago noted for "jumping at conclusions," still seems to have had a lingering belief that in this wild tale he had learned the fate of the *Erebus* and *Terror*. It was perhaps this belief which led him soon after to announce his intention of returning to England; and even after his arrival there he is said to have adhered to his theory that Franklin and his companions perished in Baffin's Bay. He pressed on to Cape Riley, however, before leaving the field of discovery, and bore his part in the search there made for traces of the missing navigators.

There is little more to relate concerning his expedi

tion. The only results of which we have any account are stated by himself to be that he was able to make "many important corrections and valuable additions to the charts of the much-frequented eastern side of Baffin's Bay, which," he adds, "has been more closely observed and navigated by this than by any former expedition; and, much to my satisfaction, confirming the latitude and longitude of every headland I had the opportunity of laying down in the year 1818."

One interesting incident, however, is worthy of mention before we take leave of Sir John Ross. When he left England on this expedition, he took with him four carrier-pigeons belonging to a lady in Ayrshire, intending to liberate two of them when the state of the ice rendered it necessary to lay his vessel up for the winter, and the other two when he discovered Sir John Franklin. A pigeon made its appearance at the dove-cot in Ayrshire, on the 13th of October, which the lady recognized by marks and circumstances that left no doubt on her mind of its being one of the younger pair presented by her to Sir John. It carried no billet, but there were indications, in the loss of feathers on the breast, of one having been torn from under the wing. Though it is known that the speed of pigeons is equal to one hundred miles an hour, the distance from Melville Island to Ayrshire, being, in a direct line, about twenty-four hundred miles, is so great, that evidence of the bird having been sent off as early as the 10th of October was required before it could be believed that no mistake was made in the identification of the individual that came to the dove-cot. It was afterwards ascertained that Sir John Ross despatched the youngest pair on the 6th or 7th of October, 1850, in a basket suspended to a balloon, during a W. N. W. gale. By the contrivance of a slow-match, the birds were to be liberated at the end of twenty-four



hours. The reader can form his own opinion as to the identity of the pigeon in question.

We have already alluded to Captain Penny's expedition, fitted out by Lady Franklin. His little vessels, the *Lady Franklin* and the *Sophia*, entered Davis's Strait on the 26th of April, 1850 ; but they did not get into the open water at the head of Baffin's Bay until the 18th of August. Nearly four months they were squeezed about among the drifting ice in this tedious and terrible passage, sometimes closely wedged on the shore-ice, and sometimes tracking by manual labor through the breaking pack. Some facts of a scientific interest are mentioned by Dr. Sutherland, who accompanied Penny.

The first great difficulty the Arctic voyager has to contend with is the capricious state of the navigation in the grand approach to the Polar Sea. The melting of the ice and snow in the north of Baffin's Bay produces a continuous stream of water, which flows steadily to the south. As soon as this current leaves the projecting points at the head of the bay, a thin film of ice is formed on it. This ice gets thicker and thicker as it moves southwards, by congealing new layers of sea-water on its under surface, and by storing up snow and sleet above, until it becomes what the whaler calls the middle-ice of the bay. In winter it extends from shore to shore ; but in summer it is separated from the Greenland coast by an open lane of water, in consequence of its connection with the fringe of land, ice being dissolved where northerly winds prevail. An open space of water is always left by this southward drift of the ice-pack at the northern extremity of Baffin's Bay ; the extent of the space varies, however, with the season. In winter, it is diminished by the shooting out of the land-ice towards the drift, and the quickened formation of the young ice ; in summer, it is increased by the

breaking up of the land-ice, and the arrest of the formation of young ice. The great object of the mariner bound to Lancaster Sound is to push his way through the open lane of water along the Greenland coast, and to get round the northern extremity of the drift ice. But he finds this to be no easy task: every southerly gale crushes the ice in upon the shores of the bay, and squeezes any unfortunate vessel chancing to be placed therein before it, often wedging it up immovably, or even breaking it to pieces under the violence of the nip. The only resource of the captive voyager, under such circumstances, is to seek a refuge beneath the lee of some huge ice-mountain that has grounded a mile or two off the land, or to take timely warning, and cut docks in the solid land-floe, into which he may retire when the pressure comes. The driving iceberg is, however, a fearful neighbor, if the water prove not shallow enough to arrest its movement; for it will then sometimes plough its onward way through miles and miles of field and pack ice, heaving up the frozen masses before its tremendous impulse, and sweeping everything away that opposes its course.

According to Dr. Sutherland, there is more chance of an easy passage to the open water at the head of Baffin's Bay early in the season, before the shore-ice is much broken, and when the middle-ice moves away from it bodily, without any intervening detritus, than later in the season, when there is a greater quantity of loosened ice to be packed into the channel.

The entire length of the Baffin's Bay coast of Greenland is indented with bays and fiords, towards which glaciers descend from the higher interior land. At Cape Farewell the termination of the glacier-ice is still miles away from the sea; between Cape Farewell and Cape York, the land, devoid of the incursions of glacier-ice,

gets narrower and narrower. North of Cape York the ice-stream projects into the sea itself, even beyond the line of prominent headlands. It is from this region that the vast icebergs, drifted out into the open Atlantic by the southward current, are derived ; for it is a singular fact that there is no glacier-ice along the shores westward of Lancaster Sound. All the snow which there falls, even so far north as  $77^{\circ}$  latitude, escapes to the sea in streams of water, carrying with them vast quantities of mud and shingle. The land on both sides of Barrow's Strait is composed of limestone ; but Greenland, and the coasts which form Davis's Strait, Baffin's Bay, and Lancaster Sound, where the fallen snow is retained for ages before it slips, as the solid glacier, back to the ocean, are all made of hard crystalline rock. Dr. Sutherland thinks that this difference of mineral constitution may in some way affect the temperature, and so determine the abundance of glaciers in the one position, and their absence in the other.

We may here remark that the ice which obstructs the navigation of the Arctic seas is of two kinds : the one produced by the congelation of fresh, and the other by that of salt water. In those inhospitable tracts, the snow, which annually falls on the islands or continents, being again dissolved by the progress of the summer's heat, pours forth numerous rills and limpid streams, which collect along the indented shores, and in the deep bays enclosed by precipitous rocks. There this clear and gelid water soon freezes, and every successive year supplies an additional investing crust, till, after the lapse, perhaps, of several centuries, the icy mass rises at last to the size and aspect of a mountain, commensurate with the elevation of the adjoining cliffs. The melting of the snow, which is afterwards deposited on such enormous blocks, likewise contributes to their growth ;

and, by filling up the accidental holes or crevices, it renders the whole structure compact and uniform. Meanwhile the principle of destruction has already begun its operations. The ceaseless agitation of the sea gradually wears and undermines the base of the icy mountain, till at length, by the action of its own accumulated weight, when it has perhaps attained an altitude of a thousand or even two thousand feet, it is torn from its frozen chains, and precipitated, with a tremendous plunge, into the abyss below. This mighty launch now floats like a lofty island on the ocean; till, driven southwards by winds and currents, it insensibly wastes and dissolves away in the wide Atlantic. Icebergs have been known to drift from Baffin's Bay to the Azores.

Such is believed to be the real origin of the icy mountains or icebergs, entirely similar in their formation to the glaciers which occur on the flanks of the Alps and the Pyrenees. They consist of a clear, compact, and solid ice, having the fine green tint, verging to blue, which ice or water, when very pure and of a sufficient depth, generally assumes. From the cavities of these icebergs the crews of the northern whalers are accustomed, by means of a hose or flexible tube of canvas, to fill their casks easily with the finest and softest water.

The projecting tongues of the glaciers are not dissolved where they extend into the sea, but broken off by a species of "flotation." Heavy spring-tides are driven into the head of the bay, and up the fiords, by strong southerly winds; and the buoyant ice is heaved up by the rising water, and broken off from its parent stream. The floating power of large masses of ice must be enormous. Dr. Sutherland observed upon a small island, at an elevation of forty feet, a block of granite that measured sixteen feet in length, and must have contained at least one hundred and eighty-six tons of

solid rock! He calculated that a cube of ice, forty feet across the side, could easily have carried off this burden in water seven fathoms deep. Icebergs thus broken off from the parent glacier were often observed tumbling about in the sea. Some of these were four times bigger than St. Paul's Cathedral, and shrouded themselves in a veil of spray as they rolled over, emitting sounds that could only be compared to terrific thunder-peals, and turning up the blue mud from depths of two and three hundred fathoms. Oscillations in the sea were produced by such disturbances, which, after travelling a dozen miles, pounded into fragments the ice-field on which they ultimately fell.

While icebergs are the slow growth of ages, the fields or shoals of saline ice are annually formed and destroyed. The ice generated from melted snow is hard, pellucid, and often swells to an enormous height and dimensions. But the concretion of salt water wants solidity, clearness, and strength, and never attains to any very considerable thickness. It seldom floats during more than part of the year; though, in some cold seasons, the scattered fragments may be surprised by the early frost, and preserved till the following summer.

Captain Penny's expedition reached the entrance of Wellington Channel on the 25th of August. On the 14th of September young ice formed round the ships; and they were compelled to take up their winter quarters in Assistance Bay, near the south-west point of Wellington Channel. Captain Austin's squadron, of four ships, was fixed on Griffith's Island, a few miles further west. November 7th, the sun was beneath the horizon at noon, the thermometer was seven degrees below zero, and the sea-ice three feet thick. January 13th, mercury froze for the first time. At the end of January the ice was five feet thick. The sun rose



THE SHIPWRECK OVERTAKEN BY A STORM.



White Sea



above the southern horizon for an instant at noon, February 7th. February 24th was the coldest day the thermometer sinking forty-five degrees below zero April 3d, the ice was seven feet thick. In the beginning of May it attained its maximum thickness of seven feet nine inches. June 12th, the thermometer rose to 55°, the highest point of the season. Two days after, the first rain fell. At the end of June small streams of water began to flow from the land. At the end of July the sea-ice was diminished to a thickness of four feet by the melting of the upper surface. August 8th, the bay-ice broke up, and set the ships free, after eleven months' close detention. Four days afterwards, the young ice began again to form on the sea at night.

Throughout this winter of intense cold, the temperature of the sea remained nearly uniform. It never sank so low as twenty-nine degrees. A hole was kept open through the ice, near the ships, for the purpose of observing the water, as well as for noticing the rise and fall of the tides. The ice invariably increased its thickness by additions to its lower surface. As the sea-water froze, a considerable portion of its salt was separated from it, and blown along the surface of the ice, mixing with the fresh-fallen snow as it went. On this account snow-wreaths could never be used for melting into water; the snow on the land often contained traces of salt, miles away from the sea. The sea-ice hardly ever contained more than one quarter the quantity of salt found in an equal volume of sea-water.

The interior of the ships was warmed to between forty and fifty degrees. This was found to be the highest limit of safety; in it, the hoar-frost was never thawed in the beds; the blankets and night-caps of the sleepers often adhered inconveniently to the ships' planks. With a higher temperature, the vapor of the

interior of the ships was deposited in the beds as moisture instead of ice, and then rheumatic attacks were troublesome among the crew. With this range, the difference of heat experienced on going into the open air often amounted to one hundred degrees.

Much less food was consumed during the winter's rest than during the labors of summer. On this account, the provisions were served out without weighing, and considerable weekly savings were effected. The men took instinctively just what nourishment the waste of their bodies required.

A vast abundance of the lower forms of life was found everywhere in the inclement region in which the ships sojourned. Small cavities, from two to six feet deep, studded the under surface of the sea-ice. A greenish, slimy substance, composed of animalcules and microscopic plants, was found in these. The cavities, in fact, had been hollowed out by the higher temperature attendant upon the vital action going on in these minute creatures. The most intense cold seemed to have the power of destroying some kinds of life-germs. Mity cheese, that had been exposed throughout the winter, never again manifested any return of crawling propensity.

The influence of solar light was exceedingly small during the depth of winter. A little trace of daylight was always perceptible at noon; but for seven days before and after the 22d of December, chloride of silver was not blackened by exposure to the south horizon. On the 1st of January it began to assume a slight leaden tinge. Mustard and cresses were reared with great care; but the young plants were composed of ninety-four per cent. of water, and contained only half the quantity of nutritious and antiscorbutic matters that had been present in the seeds.

The men were kept amused during the winter by theatrical representations, balls, and masquerades, after Captain Parry's example ; but the schools and libraries were the most valuable auxiliaries in preventing ennui. Geographical studies were especially popular. After the nightly lessons, it was often necessary to settle forecastle disputes as to the insular character of Cape Horn, the Roman Catholic faith of the Chinese, and the identity of the crocodiles of the Nile with the alligators of the Mississippi.

Far from the least interesting members of this Arctic community were a kennel of Esquimaux dogs, that had been established in a snow-hut near the ships. The four oldest had accompanied Mr. Petersen, the Danish interpreter, from Greenland. But these had thriven and multiplied amid the congenial scenes of ice and snow, so that complete teams for two sledges could be furnished out in spring. They were great favorites among the seamen, and flocked eagerly round the first person who emerged from the snow-covered ships in the morning. They were, nevertheless, of highly jealous temperament ; for, if one of them chanced to receive more notice than his companions, the lucky fellow was forthwith attacked by the rest of the pack. This so constantly occurred, that some of the cunning young dogs became afraid of the men's caresses, and ran away the moment any marked demonstrations of kindness were directed towards them.

In many points, amusing instances of the adaptation of canine instinct to the necessities of Arctic life were displayed. In fine, sunny weather, the dogs satisfied their thirst by lapping the surface snow ; but in colder periods of the season they burrowed some inches down for their supply of frozen water. In extremely severe weather, they constantly coiled themselves closely up



and covered their noses with the shaggy fur of their tails. At these times, they never rose even to shake off the accumulating wreaths of falling snow; if their masters called them, they answered by turning their eyes, but without removing their natural respirators from their nostrils, and no demonstration, short of a determined kick, could make them shift their quarters; but, at other times, they lay stretched out at full length, and were on their legs in obedience to the first tone of a familiar voice.

The young dogs had to learn some painful experiences. The first time they were taken to the open water, they mistook it for ice, coolly walked into it, and were nearly drowned. One poor fellow undertook to lick a tempting morsel of fat from an iron shovel, when, greatly to his surprise, the cold metal stuck fast to his tongue, and he dragged the shovel along for some distance, at last only extricating himself from it by a strong effort, and at the expense of leaving some inches of mucous membrane behind him. When the dogs were employed in sledging-work, it was no uncommon thing for them to start off with their loads in full pursuit of bears. In the spring, two carrier-pigeons were despatched in the car of a small balloon. The balloon fell upon the ice, while still in sight, and dragged along for some distance. An object that was so full of interest to their masters could not, by any means, be slighted by the dogs; in a moment they were all off after it, the men following them pell-mell to save the pigeons. The four-footed animals had by far the best of the race; but the balloon, fortunately for its freight, cleared the edge of the ice just as they came up with it. When the ice around the ships broke up, the dogs understood the indication, and galloped about in mad joy, leaping from piece to piece, and whining restlessly, or swimming

round the ship until they were picked up and established upon the decks.

The Esquimaux dog is described as resembling in form the shepherd's dog, rising to the height of the Newfoundland, but broad like the mastiff; having short pricked ears, a furry coat, and a bushy tail. In general they are observed to bear a strong resemblance to the wolf, and the opinion is even prevalent that the former exhibit only the latter in a tamed state; but the avidity with which the wolf devours his supposed brethren does not seem quite consistent with so close an affinity. Frequent beatings are necessary to train these dogs for acting as a regular team. But their greatest sufferings respect the want of food. Captain Parry saw one which ate a large piece of canvas, a cotton handkerchief laid out to dry, and a piece of a linen shirt. When these animals are yoked in the sledge, a whip of twenty feet long enforces obedience; while peculiar cries indicate the right or left, to turn, or to stop.

A singular fact is related in Dr. Sutherland's journal in regard to the use of snow for allaying thirst: "The use of snow when persons are thirsty does not by any means allay the insatiable desire for water; on the contrary, it appears to be increased in proportion to the quantity used, and the frequency with which it is put into the mouth. For example: a person walking along feels intensely thirsty, and he looks to his feet with coveting eyes; but his sense and firm resolutions are not to be overcome so easily, and he withdraws the open hand that was to grasp the delicious morsel and convey it into his parching mouth. He has several miles of a journey to accomplish, and his thirst is every moment increasing; he is perspiring profusely, and feels quite hot and oppressed. At length his good resolutions stagger, and he partakes of the smallest par-

ticle, which produces a most exhilarating effect ; in less than ten minutes he tastes again and again, always increasing the quantity ; and in half an hour he has a gum-stick of condensed snow, which he masticates with avidity, and replaces with assiduity the moment that it has melted away. But his thirst is not allayed in the slightest degree ; he is as hot as ever, and still perspires ; his mouth is in flames, and he is driven to the necessity of quenching them with snow, which adds fuel to the fire. The melting snow ceases to please the palate, and it feels like red-hot coals, which, like a fire-eater, he shifts about with his tongue, and swallows without the addition of saliva. He is in despair ; but habit has taken the place of his reasoning faculties, and he moves on with languid steps, lamenting the severe fate which forces him to persist in a practice which in an unguarded moment he allowed to begin. . . . I believe the true cause of such intense thirst is the extreme dryness of the air when the temperature is low."

The result of Captain Penny's labors, so far as exploration is concerned, is already known. Sledging parties went out in the spring. A large whaling-boat was dragged bodily up Wellington Channel, and launched in the clear water beyond the ice-barrier. Two thousand miles were travelled over, seven hundred and ten of which were in districts seen for the first time by human eyes. No further traces of the missing expedition were, however, found. The Lady Franklin and Sophia left Assistance Bay, homeward bound, on the 12th of August ; five weeks afterwards, they were in the Thames.

We have seen that Mr. Grinnell's expedition was undertaken with two small brigs — the Advance and the Rescue. The Advance was intended originally for carrying heavy castings from an iron foundry. Both vessels were strengthened with great skill and at large

expense for the Arctic service. The vessels were placed under the command of Lieut. De Haven. His officers consisted of Mr. Murdoch, sailing-master ; Dr. E. K. Kane, surgeon and naturalist ; and Mr. Lovell, midshipman. The *Advance* had a crew of twelve men when she sailed ; but two of them complaining of sickness, and expressing a desire to return home, were left at the Danish settlement at Disco Island, on the coast of Greenland.

The expedition passed the eastern extremity of Newfoundland, June 3d, 1850, ten days after leaving Sandy Hook, and then sailed east-north-east, directly for Cape Comfort, on the coast of Greenland. The weather was generally fine ; and only a single accident occurred on the voyage to that country of frost and snow. Off the coast of Labrador they met an iceberg making its way toward the tropics. The night was very dark ; and the *Advance*, going at the rate of seven or eight knots an hour, ran against the huge voyager, and lost her jib boom.

The voyagers did not land at Cape Comfort, but, turning northward, sailed along the south-west coast of Greenland, sometimes in an open sea, and sometimes in the midst of broad acres of broken ice (particularly in Davis's Straits), as far as Whale Island. From this place a boat, with two officers and four seamen, was sent to Disco Island, a distance of about twenty-six miles, to a Danish settlement there, to procure skin clothing and other articles necessary for use during the rigors of a polar winter. The officers were entertained at the government house, while the seamen were comfortably lodged with the Esquimaux, sleeping in furs at night. They returned to the ship the following day, and the expedition proceeded on its voyage. When passing the little Danish settlement of Uper-

navik, they were boarded by natives for the first time. They were out in government whale-boats, hunting for ducks and seals. These hardy children of the Arctic Circle were not shy, for through the Danes, the English whalers, and government expeditions, they had become acquainted with men of other latitudes.

When the expedition reached Melville Bay, which, on account of its fearful character, is also called the Devil's Nip, the voyagers began to witness more of the grandeur and perils of Arctic scenes. Icebergs of all dimensions came bearing down from the polar seas like vast squadrons, and the roar of their rending came over the waters like the booming of the heavy broadsides of contending navies. They also encountered immense floes, with only narrow channels between; and at times their situation was exceedingly perilous.

On one occasion, after heaving through fields of ice for five consecutive weeks, two immense floes, between which they were making their way, gradually approached each other; and for several hours they expected their tiny vessels—tiny when compared with the mighty objects around them—would be crushed. An immense *calf* of ice, six or eight feet thick, slid under the *Rescue*, lifting her almost "high and dry," and careening her partially upon her beam ends. By means of ice-anchors (large iron hooks) they kept her from capsizing. In this position they remained about sixty hours, **when**, with saws and axes, they succeeded in relieving her. The ice now opened a little, and they finally warped through into clear water. While they were thus confined, polar bears came around them in abundance, greedy for prey, and the seamen indulged a little in the perilous sports of the chase.

The open sea continued but a short time, when they again became entangled among bergs, floes, and hum



mocks, and encountered the most fearful perils. Sometimes they anchored their vessels to icebergs, and sometimes to floes and to masses of hummock. On one of these occasions, while the cook, an active Frenchman, was upon a berg, making a place for an anchor, the mass of ice split beneath him, and he was dropped through the yawning fissure into the water, a distance of almost thirty feet. Fortunately, the masses, as is often the case, did not close up again, but floated apart, and the poor cook was hauled on board more dead than alive, from excessive fright. It was in this fearful region that they first encountered pack-ice, and there they were locked in from the 7th to the 23d of July.

While in this situation they were joined by the British yacht Prince Albert, under Captain Forsyth, and together the three vessels were anchored, for a while, to an immense field of ice, in sight of the Devil's Thumb, a high, rocky peak, situated in latitude  $74^{\circ} 22'$ . It was now about thirty miles distant, and, with the dark hills adjacent, presented a strange aspect where all was white and glittering. The peak and the hills are masses of rock, with occasionally a lichen or a moss growing upon their otherwise naked surfaces. In the midst of the vast ice-field loomed up many lofty *bergs*, all of them in slow and majestic motion.

From the Devil's Thumb the American vessels passed onward through the pack toward Sabine's Islands, while the Prince Albert essayed to make a more westerly course. They reached Cape York at the beginning of August. Far across the ice, landward, they discovered, through their glasses, several men, apparently making signals; and for a while they rejoiced in the belief that they saw a portion of Sir John Franklin's companions. Four men were despatched, with a whale-boat, to reconnoitre. They soon discovered the men to

be Esquimaux, who, by signs, professed great friendship, and endeavored to get the voyagers to accompany them to their homes beyond the hills. They declined; and, as soon as they returned to the vessel, the expedition again pushed forward, and made its way to Cape Dudley Digges, which they reached on the 7th of August.

At Cape Dudley Digges they sighted the Crimson Cliffs, a name suggested by the patches of red snow, which in the distance impart a rose-hue color to the acclivities. These lofty cliffs are of dark brown stone. It was a magnificent sight, in that cold region, to see such an apparently warm object standing out in bold relief against the dark blue back-ground of a polar sky. This was the most northern point to which the expedition penetrated. The whole coast which they had passed from Disco to this cape is high, rugged, and barren, only some of the low points, stretching into the sea, bearing a species of dwarf fir. North-east from the cape rise the Arctic Highlands, to an unknown altitude; and, stretching away northward, was the then unexplored Smith's Sound, filled with impenetrable ice.

From Cape Dudley Digges, the *Advance* and *Rescue*, beating against wind and tide in the midst of the ice-fields, made Wolstenholme Sound, and then, changing their course to the south-west, emerged from the fields into the open waters of Lancaster Sound. Here, on the 18th of August, 1850, they encountered a tremendous gale, which lasted about twenty-four hours. The two vessels parted company during the storm, and remained separate several days. Across Lancaster Sound, the *Advance* made her way to Barrow's Straits, and on the 22d discovered the Prince Albert on the southern shore of the straits, near Leopold Island, a mass of lofty, precipitous rocks, dark and barren, and hooded and draped

with snow. The weather was fine, and soon the officers and crews of the two vessels met in friendly greeting. Those of the Prince Albert were much astonished at the encounter. They had left the Americans in Melville Bay on the 6th, pressing northward through the pack; and could not conceive how they so soon and safely penetrated it, when the Prince, though towed by a steamer, had made such poor progress. Captain Forsyth had attempted to reach a particular point, where he intended to remain through the winter; but, finding the passage thereto completely blocked up with ice, he had resolved, on the very day when the Americans appeared, to return home.

The two vessels remained together a day or two, when they parted company, the Prince Albert to return to England, and the Advance to make further explorations. Off Leopold Island, on the 23d of August, the Advance took the lead through the vast masses of floating ice. "The way was before them," says Mr. Snow, of the Prince Albert, who stood upon the deck of the Advance; "the stream of ice had to be either gone through boldly, or a long *detour* made; and, despite the heaviness of the stream, they pushed the vessel through in her proper course. Two or three shocks, as she came in contact with some large pieces, were unheeded; and the moment the last block was past the bow, the officer sang out, 'So! steady as she goes on her course;' and came aft as if nothing more than ordinary sailing had been going on. I observed our own little bark nobly following in the American's wake; and, as I afterward learned, she got through it pretty well, though not without much doubt of the propriety of keeping on in such procedure after the 'mad Yankee,' as he was called by our mate."

From Leopold Island the Advance proceeded to the

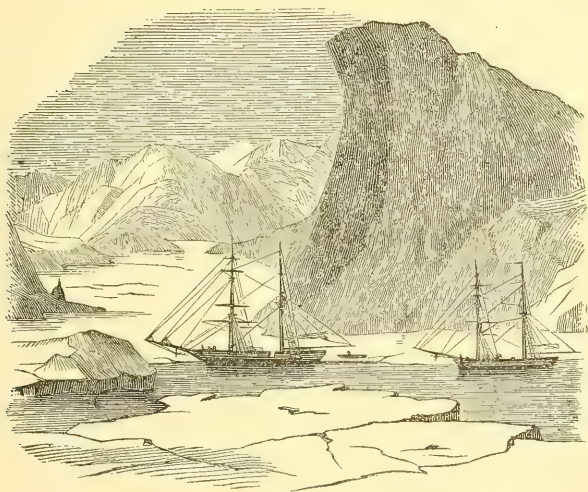
north-west and on the 25th reached Cape Riley, another amorphous mass, not so regular and precipitate as Leopold Island, but more lofty. Here a strong tide, setting in to the shore, drifted the Advance toward the beach, where she stranded. Around her were small bergs and large masses of floating ice, all under the influence of the strong current. It was about two o'clock in the afternoon when she struck. By diligent labor in removing everything from her deck to a small floe, she was so lightened, that at four o'clock the next morning she floated, and soon everything was properly replaced.

Near Cape Riley the Americans fell in with a portion of an English expedition; and there also the Rescue, left behind in the gale in Lancaster Sound, overtook the Advance. There was Captain Penny, with the Sophia and Lady Franklin; the veteran Sir John Ross, with the Felix, and Commodore Austin, with his flag-ship the Resolute. Together the navigators of both nations explored the coast at and near Cape Riley, and on the 27th they saw in a cove on the shore of Beechey Island, or Beechey Cape, on the east side of the entrance to Wellington Channel, unmistakable evidence that Sir John Franklin and his companions were there in April, 1846. There they found the articles known to belong to Franklin's ships, as described in the preceding chapter. They also visited the graves, the inscriptions on which we have already given.

How much later than April 3d (the date upon one of the head-boards) Franklin remained at Beechey, cannot be determined. There were evidences of his having gone northward, for sledge-tracks in that direction were visible. It was the opinion of Dr. Kane that, on the breaking up of the ice in the spring, Sir John Franklin passed northward with his ships through Wellington

Channel into the great polar basin, and that he did not return. This, too, was the opinion of Captain Penny, who zealously urged the British government to send a powerful screw steamer to pass through that channel and explore the coasts beyond.

Leaving Beechey Cape, the American expedition forced its way through the ice to Barlow's Inlet, where they narrowly escaped being frozen in for the winter. They endeavored to enter the inlet, for the purpose of



ADVANCE AND RESCUE IN BARLOW'S INLET.

making it their winter quarters, but were prevented by the mass of pack-ice at its entrance.

It was on the 4th of September, 1850, when the *Advance* and *Rescue* arrived at Barlow's Inlet; but,



after remaining seven or eight days, they abandoned the attempt to enter. On the right and left of the entrance were dark rocks, in the centre the frozen waters, and beyond, a range of hills. There was much smooth ice within the inlet, and, while the vessels lay anchored to the "field," officers and crew exercised and amused themselves by skating. On the left of the inlet they discovered a cairn (a heap of stones with a cavity), eight or ten feet in height, which was erected by Capt. Ommaney, of the English expedition then in the polar waters. Within it he had placed two letters, for "whom it might concern." Commander De Haven also deposited a letter there. It is believed to be the only post-office in the world free for the use of all nations. The rocks here presented vast fissures made by the frost; and at the foot of the cliff on the right that powerful agent had cast down vast heaps of *débris*.

From Barlow's Inlet the American expedition moved slowly westward, battling with the ice every rood of the way, until they reached Griffin's Island, at about 96° west longitude from Greenwich. This was attained on the 11th of September, and was the extreme westing made by the expedition. All beyond seemed impenetrable ice; and, despairing of making any further discoveries before the winter should set in, they resolved to return home. Turning eastward, they hoped to reach Davis's Straits by the southern route, before the cold and darkness came on; but they were doomed to disappointment. Near the entrance to Wellington Channel they became completely locked in by hummock-ice, and soon found themselves drifting with an irresistible tide up that channel toward the pole.

Now began the most perilous adventures of the navigators. The summer day was drawing to a close; the diurnal visits of the pale sun were rapidly shortening,

and soon the long polar night, with all its darkness and horrors, would fall upon them. Slowly they drifted in those vast fields of ice, whither, or to what result, they knew not. Locked in the moving yet compact mass; liable every moment to be crushed; far away from land; the mercury sinking daily lower and lower from the zero figure, toward the point where that metal freezes, they felt small hope of ever reaching home again. Yet they prepared for winter comforts and winter sports, as cheerfully as if lying safe in Barlow's Inlet. As the winter advanced, the crews of both vessels went on board the larger one. They unshipped the rudders of each to prevent their being injured by the ice, covered the deck of the *Advance* with felt, prepared their stores, and made arrangements for enduring the long winter, now upon them. Physical and mental activity being necessary for the preservation of health, they daily exercised in the open air for several hours. They built ice huts, hunted the huge white bears and the little polar foxes, and, during the darkness of the winter night, they arranged in-door amusements and employments.

Before the end of October, the sun made its appearance for the last time, and the awful polar night closed in. Early in November they wholly abandoned the *Rescue*, and both crews made the *Advance* their permanent winter home. The cold soon became intense; the mercury congealed, and the spirit thermometer indicated 46° below zero. Its average range was 30° to 35°. They had drifted helplessly up Wellington Channel almost to the latitude from whence Captain Penny saw an open sea, supposed to be the great polar basin where there is a more genial clime than that which intervenes between the Arctic Circle and the 75th degree. Here, when almost in sight of the open ocean, that mighty polar tide, with its vast masses of ice, suddenly

ebbed, and our little vessels were carried back, as resistlessly as before, through Barrow's Straits, into Lancaster Sound. All this while the immense fields of hummock-ice were moving, and the vessels were in hourly danger of being crushed and destroyed. At length, while drifting through Barrow's Straits, the congealed mass, as if crushed together by the opposite shores, became more compact, and the Advance was elevated almost seven feet by the stern, and keeled two feet eight inches, star-board. In this position she remained, with very little alteration, for five consecutive months; for, soon after entering Baffin's Bay in the midst of the winter, the ice became frozen in one immense tract, covering millions of acres.

Thus frozen in, sometimes more than a hundred miles from land, they drifted slowly along the south-west coast of Baffin's Bay, a distance of more than a thousand miles from Wellington Channel. For eleven weeks that dreary night continued, and during that time the disc of the sun was never seen above the horizon. Yet nature was not wholly forbidding in aspect. Sometimes the aurora borealis would flash up still further northward; and sometimes mock suns and mock moons would appear, in varied beauty, in the starry sky. Brilliant, too, were the northern constellations; and when the real moon was at its full, it made its stately circuit in the heavens without descending below the horizon, and lighted up the vast piles of ice with a pale lustre, almost as vivid as the morning twilights of more genial skies.

Around the vessels the crews built a wall of ice; and in ice huts they stowed away their cordage and stores, to make room for exercise on the decks. They organized a theatrical company, and amused themselves and the officers with comedy well performed. Behind the pieces of hummock each actor learned his part; and by means of

calico they transformed themselves into female characters, as occasion required. These dramas were acted upon the deck of the *Advance*, sometimes while the thermometer indicated 30° below zero ; and actors and audience highly enjoyed the fun. They also went out in parties during that long night, fully armed, to hunt the polar bear, the grim monarch of the frozen north, on which occasions they often encountered perilous adventures. They played at foot-ball, and exercised themselves in drawing sledges heavily laden with provisions. Five hours of each twenty-four they thus exercised in the open air, and once a week each man washed his whole body in cold snow-water. Serious sickness was consequently avoided ; and the scurvy, which attacked them, soon yielded to remedies.

Often, during that fearful night, they expected the disaster of having their vessels crushed. All through November and December, before the ice became fast, they slept in their clothes, with knapsacks on their backs, and sledges upon the ice, laden with stores, not knowing at what moment the vessels might be demolished, and themselves forced to leave them, and make their way toward land. On the 8th of December, and the 23d of January, they actually lowered their boats and stood upon the ice, for the crushing masses were making the timbers of the gallant vessel creak, and its decks to rise in the centre. They were then ninety miles from land, and hope hardly whispered an encouraging idea of life being sustained. On the latter occasion, when officers and crew stood upon the ice, with the ropes of their provision-sledges in their hands, a terrible snow-drift came from the north-east, and intense darkness shrouded them. Had the vessel then been crushed, all must have perished.

A strange picture might have been seen on Christmas

day, 1850, by a spirit who could have roamed from end to end of the icy continent, and taken it in at a glance. No less than ten Arctic discovery-ships were wintering within a few hundred miles of each other. Under Griffith's Island lay her majesty's ships the *Resolute*, *Assistance*, *Pioneer*, and *Intrepid*; in a small bay in North Devon were securely sheltered Captain Penny's two brigs; the *Investigator* lay in Prince of Wales Strait; and at the mouth of Lancaster Sound, drifting helplessly in the pack which had borne them already twelve degrees to the eastward, were the two unfortunate ships of the Grinnell expedition. But this was not all. Only three to four hundred miles from the *Investigator*'s winter quarters, Mr. Rae was waiting on the border of Great Bear Lake for weather that would allow him to start on his land journey. And, in all human probability, Sir John Franklin's ships, the *Erebus* and *Terror*, lay imbedded in the ice, desolate and abandoned, somewhere off the north coast of King William's Land. But where were the men who sailed in them—the objects of so many expeditions and so much anxious hope?

Dr. Kane, who wrote a deeply interesting account of the first Grinnell expedition, says, under date of February 28th, 1851, when, for some days, the average temperature was 53 degrees below zero: "Cold as it was, our mid-day exercise was never interrupted unless by wind and drift-storms. We felt the necessity of active exercise; and, although the effort was accompanied with pains in the joints, sometimes hardly bearable, we managed, both officers and crew, to obtain at least three hours a day. The exercise consisted of foot-ball and sliding, followed by regular games of romps, leap-frog, and tumbling in the snow. By shovelling away near the vessel, we obtained a fine bare surface of fresh ice, extremely glib and durable. On this we constructed a



skating-ground and admirable slides. I walked regularly over the floes, although the snows were nearly impassable. With all this, aided by hosts of hygienic resources, feeble, certainly, but still the best at my command, scurvy advanced steadily."

On the 21st April Dr. Kane encountered a bear on the ice, on which he remarks: "We are at least eighty miles from the nearest land, Cape Kater; and channels innumerable must intervene between us and terra firma. Yet this majestic animal, dependent upon his own predatory resources alone, and, defying cold as well as hunger, guided by a superb instinct, confides himself to these solitary, unstable ice-fields.

"Parry, in his adventurous polar effort, found these animals at the most northern limit of recorded observation. Wrangell had them as companions on his first Asiatic journey over the Polar Ocean. Navigators have also found them floating upon berg and floe far out in open sea; and here we have them in a region some seventy miles from the nearest stable ice. They have seldom or never—if we except Parry's Spitzbergen experience—been seen so far from land. In the great majority of cases, they seem to have been accidentally caught and carried adrift on disengaged ice-floes. In this way they travel to Iceland; and it may have been so, perhaps, with the Spitzbergen instances.

"There is something very grand about this tawny savage: never leaving this utter destitution, this frigid inhospitableness; coupling in May, and bringing forth in Christmas time; a gestation carried on all of it below zero, more than half of it in Arctic darkness—living in perpetual snow, and dependent for life upon a never-ending activity; using the frozen water as a raft to traverse the open seas, that the water *unfrozen* may yield him the means of life. No time for hibernation has this polar tiger; his life is one great winter."

Early in February the northern horizon began to be streaked with gorgeous twilight, the herald of the approaching sun; and on the 18th his disc first appeared above the horizon. As the golden rim rose above the glittering snow-drifts and piles of ice, three hearty cheers went up from those hardy mariners, and they enthusiastically welcomed their deliverer from the chains of frost. Day after day the sun rose higher and higher, and vast masses of ice began to yield to his fervid influences. The scurvy disappeared, and from that time, until their arrival home, not a man suffered from sickness. As they slowly drifted through Davis's Straits, and the ice gave indications of breaking up, the voyagers made preparations for sailing. The *Rescue* was reoccupied (May 12th, 1851), and her stern-post, which had been broken by the ice in Barrow's Straits, was repaired. To accomplish this, they were obliged to dig away the ice, which was from twelve to fourteen feet thick around her. They re-shipped their rudders; removed the felt covering; placed their stores on deck, and then patiently awaited the disruption of the ice. This event was very sudden and appalling. It began to give way on the 5th of June, and in the space of twenty minutes the whole mass, as far as the eye could reach, became one vast field of moving floes.

On the 10th of June, 1851, they emerged into open water a little south of the Arctic Circle, in latitude  $65^{\circ} 30'$ . They immediately repaired to Godhaven, on the coast of Greenland, where they re-fitted, and, unappalled by the perils through which they had just passed, they once more turned their prows northward, to encounter anew the ice squadrons of Baffin's Bay. Again they traversed the coast of Greenland to about the 73d degree, when they bore to the westward, and on the 7th and 8th of July passed the English whaling-fleet near the Dutch

Islands. Onward they pressed through the accumulating ice to Baffin's Island, where, on the 11th, they were joined by the Prince Albert, then out upon another cruise. They continued in company until the 3d of August, when the Albert departed for the westward, determined to try the more southern passage. Here again the Americans encountered vast fields of hummock-ice, and were subjected to the most imminent perils. The floating ice, as if moved by adverse currents, tumbled in huge masses, and reared upon the sides of the sturdy little vessels like monsters of the deep intent upon destruction. These masses broke in the bulwarks, and sometimes fell over upon the decks with terrible force, like rocks rolled over a plain by mountain torrents. The noise was fearful—so deafening that the mariners could scarcely hear each other's voices. The sounds of these rolling masses, together with the rending of the icebergs floating near, and the vast floes, produced a din like the discharge of a thousand pieces of ordnance upon a field of battle.

Finding the north and west closed against further progress, by impenetrable ice, De Haven was balked; and, turning his vessels homeward, they came out into an open sea somewhat crippled, but not a plank seriously started. During a storm off the banks of Newfoundland, a thousand miles from New York, the vessels parted company. The Advance arrived safely at the Navy Yard, at Brooklyn, on the 30th of September, 1851; and the Rescue joined her there a few days afterward. Toward the close of October the government resigned the vessels into the hands of Mr. Grinnell, to be used in other service, but with the stipulation that they were to be subject to the order of the Secretary of the Navy in the spring, if required for another expedition in search of Sir John Franklin.



## CHAPTER XV.

THE PRINCE ALBERT REFITTED BY LADY FRANKLIN. — MR. KENNEDY THE COMMANDER. — DEPARTURE OF THE VESSEL. — UPERNAVIK. — TRIAL OF CARRIER-PIGEONS. — DISASTROUS SEPARATION. — RELIEF AND REUNION. — PREPARATIONS FOR WINTERING. — WINTER JOURNEYS. — VISIT TO FURY BEACH. — THE GRAND JOURNEY. — SEVERE GALE. — THE FURY'S STORES. — DOGS. — CAIRNS NOT ALWAYS SEEN. — CAPE WALKER. — RETURN TO BATTY BAY. — HOMEWARD BOUND. — BELLOT. — RAE'S LAND JOURNEY IN 1851.

THE discovery of the traces of Franklin's visit to Point Riley, the account of which was brought home by the Prince Albert, gave encouragement for a renewal of the search. On the 3d of June, 1851, the Prince Albert, which had been refitted by Lady Franklin for the purpose of exploring the shores of Prince Regent's Inlet, set sail from Stromness. She was under the command of Mr. William Kennedy, formerly in the service of the Hudson's Bay Company, and who has published an interesting narrative of his adventures.

The Prince Albert had been well strengthened for encounters with ponderous masses of ice. Along her sides, from the keel to about two feet above the water-line, there was a doubling of elm planking of fully two and a half inches thick, intended not only to fortify the hull of the little vessel, but to preserve her sides from the tear and wear of sailing through, and rubbing against, sharp, rasping pieces of ice. The bow and stern-post were sheathed with wrought iron a quarter of an inch thick, and a broad strip of thick sheet-iron

ran along the water-line as far aft as the main-mast. Her hold was a perfect labyrinth of cross-beams and massive fastenings, to enable her to withstand the evil consequences of a "nip;" and the arrangements generally were conducted in a manner which, while it indicated the dangerous nature of the service, also served to assure her crew that nothing had been left undone which could in any way conduce to their comfort and safety.

She was supplied with several boats. One was made of gutta-percha, and another of mahogany; the third being a small *dingy*, of the ordinary kind. She had also one of Halkett's Mackintosh boats, and a tin kayak, made in imitation of those used by the Esquimaux. Dressed moose-skins and parchment, to be converted during the voyage into moccasins, snow-shoes, dog-sledge-traces, &c., were abundantly supplied. Provision for two years was put on board, and part of this consisted of a ton and a half of pemmican.

The ship's company consisted of eighteen in all, including Mr. Kennedy, the commander, Lieutenant J. Bellot, the second in command, and Mr. Cowie, the surgeon. Bellot was a spirited young officer from the French navy, whose romantic love of adventure led him to offer his services to Lady Franklin in the search which had now been going on for some years. He soon proved himself to be in every way a most useful auxiliary, and an honor to the nation to which he belonged.

Among the crew, who were all picked men there was John Hepburn, who will be remembered by every reader of Arctic travel as the faithful attendant of Sir John Franklin during his first adventurous, and in some respects tragic journey, through North America. Hepburn's spirit was fired with an irresistible desire to assist



in searching for the hero with whom, in his youth, he had shared the perils of the wilderness; and now, in his old age, he was going to face a wilder form of perils on the ice-laden waters of the Polar Sea. Another of the men had travelled with Dr. Rae, on his first expedition to Repulse Bay; and another had accompanied Sir John Richardson in his boat journey through the interior of America. Lady Franklin herself was present to see the vessel off. She took an affectionate leave of officers and crew; and the Prince Albert bounded from the shore and stretched out into the wide Atlantic, the Union-Jack at her peak, and the French flag, in honor of Lieutenant Bellot, flying at the fore.

On Sunday, the 24th of June, they descried the coast of Greenland on the distant horizon. In Baffin's Bay they were visited by the captains of two whaling-vessels, who created great excitement by telling them of the discovery of Franklin's winter quarters in 1845, with the details of which the reader is already acquainted. This information induced Kennedy to direct his course to Upernavik, the Danish colony on the west coast of Greenland, partly for the purpose of taking in additional supplies for the use of the winter travelling parties, but chiefly with the hope of gaining further information of the recent discoveries, from the American searching vessels which had wintered in the pack. In this, however, he was disappointed.

Of Upernavik, which he reached June 10th, 1851, Kennedy says: "It is one of that interesting group of little colonies with which the enterprise of the Danes has dotted the west coast of Greenland. Here, considerably within the Arctic Circle, we found a Christian community, not only living, but, after a fashion, thriving. We were informed by the governor that there were, even at this early period of the season, one thousand

Danish tons of oil and blubber stored, from the produce of the summer fishery. There was likewise visible evidence in every direction of an abundance of venison, water-fowl, and eggs, as well as seals. The houses were built of wood, very small, and had a singularly amphibious look about them, from being covered with tar from top to bottom, — appearing, for all the world, like so many upturned herring-boats, ready, on any emergency, to take to the water.

“A party of the Esquimaux, attached to the settlement, had come in with the produce of some hunting excursion in which they had been engaged; and I was much struck with their intelligence, and their well-clad, comfortable, and healthy appearance. This, I learned, was in a great measure due to the benevolent interest of the Danish government in their behalf. There is not a station, I was given to understand, along the whole coast of Greenland, which has not its missionary and its schoolmaster for the instruction of the natives; and, judging from what we saw and learned at Upernavik, the Danish exchequer is not without material and substantial proofs of the gratitude of the poor ‘*Innuits*.’ Thus instructed, cared for, and their energies disciplined and directed, the Esquimaux of Greenland give employment to six ships annually, in carrying the produce of their hunts and fisheries to Denmark.”

At this place six large Esquimaux dogs, for dragging sledges, were purchased. A few pairs of seal-skin boots, shoes, and trousers, *à la Esquimaux*, were also procured, and the Prince Albert proceeded on her voyage. The much-dreaded “middle ice” was reached soon after leaving, and four days were spent in passing through it to the western side of the bay, during which time the men were constantly employed in sailing, boring, pushing, thumping, and warping — not unfre-

quently exposed to the perilous nips, which are sometimes productive of such dire consequences. At this point in the voyage it was deemed advisable to test the powers of some carrier-pigeons with which they had been provided ; but the poor birds refused to take the long flight to England, and resolutely persisted in returning to the ship again, after a short survey of the icy region in which they were let loose.

During the passage of the middle-ice, a large quantity of provisions had been got up on deck, to be ready in case an unfortunate crush should sink the vessel. This was now re-stowed in the hold, on getting into the comparatively clear western waters of Baffin's Bay.

One evening about this time, while they were sailing quietly among beautiful and fantastically formed fragments of ice, which obliged them frequently to deviate a little from their course, a shout was heard ringing through the calm, still atmosphere, and very soon four Esquimaux paddled out to them in their seal-skin kayaks. They speedily clambered on board, and one of the crew happening to have some slight knowledge of English, a vigorous flow of query and reply commenced, in the course of which much useful information as to the nature of the coast and inlets was obtained. One, especially, proved to be an expert draftsman, and by means of a bit of chalk drew on the deck the outlines of various parts of the coast, which were of some service.

The progress of the vessel was now much interrupted by ice and contrary gales. All attempts to reach Cape Riley, and, subsequently, to enter Leopold Harbor, were completely frustrated. Far as the eye could reach down the west side of Prince Regent's Inlet, — which was to be the scene of their searching operations, — huge barriers of ice met the view. The voyagers pushed boldly in amongst it, however, and succeeded

after a tortuous course, in reaching Elwin Bay, which they found quite closed up. Batty Bay and Fury Beach were next visited, where they met with similar disappointment, and where they also perceived that the ice — between which and the shore they had been sailing — was setting down upon them ; so they were obliged to beat a hasty retreat, in order to escape being crushed to pieces. It was now obviously fruitless to attempt the western side of the inlet under present circumstances ; so they put about and ran for Port Bowen, on the eastern shore, which was comparatively free from ice. Here they found traces of the party which wintered at this spot with Sir Edward Parry, in 1825.

To winter here, while all their intended work lay on the other shore of the inlet, was quite out of the question ; so it was resolved at all hazards to attempt a landing again. Accordingly, on the 9th of September, they recrossed the strait, and succeeded in approaching close enough to the shore to render an attempt to land somewhat feasible. The gutta-percha boat was therefore got out, and Kennedy, with four of his men, jumped into her and rowed for the beach. This they reached without difficulty, by means of a narrow lane of open water which was opportunely discovered. On ascending the cliffs of Cape Seppings, Kennedy found, to his joy, that the harbor of Port Leopold was quite free from ice, and, if the ship could maintain her position for a few hours longer, he had no doubt of being able to effect an entrance. On descending to the beach, however, he found, to his consternation, that the passage by which they had entered was blocked up. The boat had not been fastened to the beach, but to a large piece of ice, which, with the whole body of the pack, was drifting down the inlet, carrying boat, ship, and men, along with it. To make matters worse, night was coming on,

and nothing could be seen or heard around but huge masses of ice grinding, tossing, and rearing furiously on every side. To return to the ship under these circumstances was out of the question ; so they made for the shore as fast as possible, dragging the boat along with them. On reaching it, they pulled the boat up and turned it over so as to form a kind of shelter from the night-air, and then prepared to pass the night under it, although little sleep was anticipated ; for, besides the anxiety occasioned by their strange position, their clothes were almost covered with ice, and they had no blankets or coverings of any kind. From his former experience in Arctic scenes, Kennedy knew the danger of falling *asleep* under such circumstances ; and, notwithstanding the strong desire that he and his men felt to indulge in repose, he only allowed them to *rest* for an hour at a time, obliging them during the remainder of the night to keep in active motion.

With the dawn of the following morning the shivering party scrambled to the top of the highest cliff of Cape Seppings, but not a vestige of the vessel was to be seen ! The consternation of the poor men, who were thus cast away on this bleak shore, may be imagined. Without provisions, scantily clad, no vessel, and an approaching hyperborean winter, their condition seemed forlorn indeed. One fortunate circumstance, however, cheered them not a little ; and this was the fact that, two years before, Sir James Ross had left a deposit of provisions at Whaler Point, on the other side of the harbor. Should this be found in good condition, there was every reason to hope that they might manage to pass the winter in at least some degree of comfort. Thither, therefore, Kennedy and his four men now directed their steps. A short walk brought them to the spot, where, to their great joy, they found the provisions just as they







had been left, and quite good, with the exception of a cask of tallow, a case of chocolate, and a barrel of biscuit, which had been destroyed, and their contents demolished, by the bears and foxes. A house erected by Sir James Ross was also found in pretty good condition, being only a little damaged in the roof. Near to this there was a flag-staff, to which a cylinder was attached containing a notice of the deposit of provisions, and of the future intentions of the party by whom they had been left.

"It was now," says Kennedy, "the 10th of September. Winter was evidently fast setting in, and, from the distance the ship had been carried during that disastrous night, — whether out to sea or down the inlet we could not conjecture, — there was no hope of our being able to rejoin her, at least during the present season. There remained, therefore, no alternative but to make up our minds to pass the winter, if necessary, where we were. The first object to be attended to was the erecting of some sort of shelter against the daily increasing inclemency of the weather; and for this purpose the launch, left by Sir James Ross, was selected. Her mainmast was laid on supports at the bow and stern, about nine feet in height, and by spreading two of her sails over this a very tolerable roof was obtained. A stove was set up in the body of the boat, with the pipes running through the roof; and we were soon sitting by a comfortable fire, which, after our long exposure to the wet and cold, we stood very much in need of."

Kennedy now arranged his plans for the future. To undertake a long winter journey over the country on foot had been his original intention; but, under the present circumstances, this was impossible. He therefore determined first to send out travelling parties, as soon as the state of the ice should permit, to institute

a strict search for the ship in every direction in which it was likely that she could have been carried ; and secondly, in the event of being unsuccessful in this, it was determined to make a journey early in spring to Cape Walker, to search in that direction for traces of Captain Franklin and his crews ; and so accomplish at least part of the object for which this expedition had been fitted out.

There were difficulties in the way, however. Shoes were wanted. Without shoes nothing could be done at all ; so it behoved them to exert their ingenuity. There was nothing in the *dépôt* of provisions that could be turned to this use ; but, fortunately, a good deal of the canvas covering of the old house was left, and out of this several pairs of shoes were made. They answered pretty well, although, indeed, they lasted not much longer than a few days ; so two of the party were set to work to devote their whole time to the making of a supply of canvas shoes, which should last them during the whole winter.

In contriving and constructing such clothing and implements as were absolutely necessary, and in preparing for their intended journeys, they now spent much of their time. The Sabbaths were always days of rest, and devoted to the worship of God, whose tender care had thus provided them with all the necessaries, and not a few of the comforts, of life.

On the 17th of October, while they were engaged in the usual routine of daily duty, a shot was heard to reverberate among the cliffs of Cape Seppings. So unwonted a sound caused them to rush tumultuously from their occupations, when they found, with emotions of inexpressible thankfulness and joy, that it proceeded from a party of seven of the Prince Albert's men, headed by Bellot, who had dragged the jolly-boat all the way

from Batty Bay, in the hope of finding and succoring their long-lost comrades.

"I cannot refrain," writes Kennedy, "from recording here my warmest thanks to Mr. Bellot, not only for this, but two other attempts which he had made to communicate to us the intelligence of the Prince Albert's position, and to bring us a supply of clothing. He had set out with two men to come by land to Port Leopold, the third day after getting into Batty Bay; but, after three days' march, over the wild and rugged hills, wading through deep snow, and walking against continual drift, they were obliged to return to the ship, after much suffering from cold and wet. He next made a gallant attempt along shore by means of dogs and sledges; but, getting on weak ice, fell through, and had again to return, with the loss of the sledge and part of its contents. The third (the present) attempt was more successful. The little boat, as already stated, had been dragged all the way, in case of any occasion arising for its use where the ice had not formed. They found the ice, however, formed all the way to this point, and in many places so rough that they had often to drag their boats over points of land."

From those who had thus opportunely arrived to succor them they learned that the Prince Albert was securely moored in Batty Bay; and, as there was nothing now to prevent their setting out to rejoin the vessel, preparations were commenced immediately. The activity and reactionary flow of spirits among the men was very high, at thus meeting with their long-lost comrades. Five weeks had elapsed since their disastrous separation; and that evening a truly joyous party assembled under the covering of the old launch, and caused her timbers to quake with the sound of rough old sea-songs, and tough yarns, while they quaffed brim-



• ming bowls of hot, strong chocolate to the success of their expedition.

On Wednesday, the 22d of October, their preparations being completed, a paper was deposited in the cylinder, containing an account of their proceedings, and they commenced their journey to Batty Bay.

A strong sledge had been made, on which the boat was placed; then all their goods and provisions, etc. had been securely stowed away in the latter, and hauled down to the ice on Leopold Harbor, which stretched out a smooth and level plain before them. The mast was then erected, the sails set, and, the whole party jumping in, away they went over the bay before a spanking breeze, at a rate that was quite marvellous. But, just as they got about half-way across the bay, the sledge broke down, leaving them to repair damages for the remainder of the day. Night overtook them ere they could gain the land; and, as it was not desirable to sleep on the frozen sea, they were obliged to make their way on in the dark, which was rendered, if possible, still more palpable by a heavy fall of snow. After much stumbling into crevices and cracks, frequent wanderings about they knew not where, and occasional dashings of the shins upon sharp pieces of projecting ice, a small bit of solid land was found in the shape of a flat limestone rock, surrounded by large masses of stranded ice. Here they erected a tent, and with some coals which had been brought from Whaler Point boiled a large kettle of tea, and enjoyed themselves exceedingly after the fatiguing and protracted march of the day.

But they experienced some embarrassment in disposing themselves to rest. The tent was small, and the party numbered thirteen. Six sat down on one side, and six on the other, by which they managed to have about three feet of space for stretching their legs.

Bellot — whose good-humored aptitude to accommodate himself to all varieties of circumstances was always conspicuous — undertook to squeeze in under the twelve pairs of legs, a small space at one end being left clear for his head. But the arrangement was not propitious to sleep ; and it was resolved to “ make a night of it.” They had a candle, but no candlestick ; so each man held the candle for a quarter of an hour, and then passed it to his neighbor. Songs were sung, and there was some hilarious merriment. But the candle went out, and then there was a renewal of the abortive attempts to sleep. These were accompanied with nods, groans, and sighs, — especially from poor Bellot, on whom the weight of twenty-four heavy legs began to tell with the effect of a hydraulic press. At length the gray dawn warned them to rise and resume their journey.

Their discomforts had been such that they determined in future to adopt the Esquimaux plan of building a snow hut each night, in which to sleep. Kennedy’s description of these primitive dwellings is interesting : “ The process of constructing a snow-house goes on something in this way, varied, of course, by circumstances of time, place, and materials. First, a number of square blocks are cut out of any hard-drifted bank of snow you can meet with, adapted for the purpose ; which, when cut, have precisely the appearance of blocks of salt sold in the donkey-carts in the streets of London. The dimensions we generally selected were two feet in length by fourteen inches in height, and nine inches in breadth. A layer of these blocks is laid on the ground nearly in the form of a square ; and then another layer on this, cut so as to incline slightly inwards, and the corner blocks laid diagonally over those underneath, so as to cut off the angles. Other

layers follow in the same way, until you have gradually a dome-shaped structure rising before you, out of which you have only to cut a small hole for a door, to find yourself within a very light, comfortable-looking beehive on a large scale, in which you can bid defiance to wind and weather. Any chinks between the blocks are filled up with loose snow with the hand from outside; as these are best detected from within, a man is usually sent in to drive a thin rod through the spot where he discovers a chink, which is immediately plastered over by some one from without, till the whole house is as air-tight as an egg."

In these snowy dwellings they afterwards passed many nights in considerable comfort, and on the present occasion certainly found them a great improvement on the small tent. In a few days they reached the ship, where a hearty welcome from their comrades greeted them.

Preparations were now vigorously begun for passing the next eight months of the winter of 1851-2 in the ice, and for getting ready for the land journeys which it was intended to make during that season. Portions of the stores were removed from the vessel's hold to the shore, where snow-houses were built to receive them. A wash-house, a carpenter's shop, a forge, and a powder-magazine, were also built of the same material. The decks of the Prince Albert were covered with a housing, and an embankment of snow as high as the gunwale built around her.

In all the excursions of the adventurers, Bellot, the young Frenchman, seems to have been ever foremost. He headed travelling parties, so soon as the ice permitted, to make deposits of provisions, etc., for the grand travelling expeditions in prospect; and, besides lending very efficient assistance in all departments on board,

made daily pilgrimages to a hill in the neighborhood, where he occasionally succeeded in obtaining a meridian observation of the sun, and *always* succeeded in getting his fingers frozen in the operation.

Kennedy, being almost the only man on board who had ever seen a snow-shoe or a dog-sledge before, was constantly engaged in constructing these indispensable implements for winter travelling, and in teaching his crew the use of them. Thus occupied, the time passed cheerfully by. The nights were long and dark, and grew rapidly longer and darker. The cold winds howled over them from off the chilly regions around the pole, bearing in their course blinding clouds of snow, circling and screaming madly round the solitary ship, and whistling among the rigging as if impatient for its destruction, and then roaring away over the frozen sea, to spend their fury at last on the black waves of Hudson's Bay. Sometimes the sun shone brightly out in a clear, cloudless sky, glittering on the icy particles which floated in the still, cold atmosphere, and blazing on the tops of the neighboring hills, whose white outlines were clearly and sharply defined against the blue heavens; and, as if Nature desired to make some compensation for the lengthened period of darkness to which she doomed the land, one, and sometimes two mock-suns, or, as the sailors sometimes call them, "sun-dogs," shone in the firmament, vieing in splendor with the glorious orb of day himself.

About the 5th of January, 1852, all was ready for the commencement of the long-talked-of winter journeys, and the morning of that day was ushered in with the clattering of snow-shoes and sledges, the cracking of whips, the shouts of men, and the howling and yelping of dogs. Although all the men of the Prince Albert were out upon the ice, only five of them were appointed

to undertake the first exploratory journey. These were Kennedy, Bellot, and three of the hardiest among the crew. "The first object of the journey," says Kennedy, "was, of course, to ascertain whether Fury Beach had been a retreating point to any of Sir John Franklin's party since it was visited by Lieut. Robinson, of the *Enterprise*, in 1849. A secondary object, should our expectations in this respect not be realized, was to form a first *dépôt* of provisions here, with the view of carrying out a more extended search as soon as circumstances would permit. It was desirable at the same time to ascertain the state of the *roads*, by which, of course, I mean the yet untrodden surface of the snow or ice, in the direction in which we meant to go, before commencing any transport, on a large scale, between the ship and Fury Beach; and it was thought advisable, therefore, to go comparatively light. A small supply of pemmican was all we took with us in addition to our travelling requirements, consisting of a tent and poles, blanketing and provisions for a week, some guns and ammunition, fuel, and a cooking apparatus, in all weighing from two hundred to two hundred and fifty pounds."

Troubles and difficulties, not, however, of a very serious kind, assailed them at the very commencement. The "roads" were so bad as to be almost impassable owing to the ice being detached from the shore, and so leaving as their only pathway the beach at the base of stupendous cliffs. Huge fragments of ice and large boulder stones met them at every turn, often rendering it a work of extreme difficulty for the united efforts of dogs and men to drag the sledge along. Occasionally they met with what is termed a "pressure," or a set of ice upon the shore, which blocked up the path altogether, and compelled them to have recourse to axes



to cut their way through ; and sometimes they came to banks of hard-drifted snow sloping down the face of the cliffs, and leaving only an inclined plane to drag the sledge over. On one occasion Bellot was pitched head foremost into one of these huge snow-drifts, leaving only six inches of his protruding legs to tell of his whereabouts.

The first night, not having time to erect a snow-hut, owing to the lateness of the hour, they slept in the tent, but found it very small and uncomfortable ; so that, on the following evening, they stopped for the night, after eight hours' walking, and built their snow-hut at the foot of a high precipice, with a perpendicular mass of stranded ice at the bottom, which served for a gable. The ice, which was undergoing a "pressure," groaned, ground, and crashed around them all night, and finally left them in the morning with a pile at least thirty feet high, within a few yards of the encampment.

On the 8th, being within a short distance of Fury Beach, it was resolved to leave the sledge and two of the men, while Kennedy and Bellot, with one man, should proceed forward unencumbered. Accordingly they started, and got over the ground much more rapidly than before. That night they reached Fury Beach, and stood upon the spot around which, for several days past, their anxious hopes had been circling ; but all was still and desolate as the grave. "Every object distinguished by the moonlight in the distance," says Kennedy, "became animated, to our imaginations, into the forms of our long-absent countrymen ; for, had they been imprisoned anywhere in the Arctic seas, within a reasonable distance of Fury Beach, here, we felt assured, some of them, at least, would have been now. But, alas for these fond hopes !"

It was with sad feelings and slow steps that Ken-

medy and Bellot entered the ruined walls of "Somerset House," and prepared to take a few hours' repose. A fire was lighted in the stove, which had heated the end of the building occupied by Sir John Ross's crew during the dreary winter of 1832-33. Around this they sat and supped; and, after reposing, set out, about eleven p. m., on their return to the encampment where the sledge had been left. They reached it about two a. m. of the following morning. From this point they retraced their steps again to the ship, where they arrived on the 10th, at five o'clock in the afternoon, without having encountered anything worth recording.

During the winter, travelling parties were occasionally sent out for the purpose of placing provisions *en cache*, for the benefit of those who should afterwards undertake a journey along shore to the southward, and across the country in various directions. These parties were often arrested by violent gales and snow-storms, which seem to have prevailed very much during the whole winter; so much so, indeed, that the veteran Hepburn observed, "that he had known but one gale since entering Batty Bay, and that was the gale which began when they came, and ended when they went away!"

They had a good library on board, and spent much of their time in reading. The doctor kept school, and the crew would often sit in groups, listening to his discourses, or employed in making flannel socks, canvas jackets, and other useful articles.

Spring now drew on apace. This was indicated by the increasing power of the sun and length of the days though the country retained its wintry aspect for months afterwards. About the middle of February, 1852, everything being in a proper state of advancement for the commencement of the "grand journey," preparations

for an immediate start were made ; and, on the 25th of that month, equipped with snow-shoes, sledges, and dogs, they left the vessel.

The party which now set out were a detachment of five men, under the command of Kennedy. These were to be followed in a few days by another detachment, under Bellot, who was to be waited for at Fury Beach, whence the whole, amounting to fourteen men, were to start upon hitherto untrodden ground. They were escorted as far as the south point of Batty Bay by part of the ship's company, who were to remain behind. At this point they separated with many kind farewells and three hearty cheers, after which they were soon lost to each other in the mist.

During the first part of the journey, the equinoctial gales blew with great violence. They were frequently detained for whole days at a time in their encampment by these fierce winds, from whose bitter fury they were, however, well protected by the snow-houses which they built. "The gale," says Kennedy, "of Saturday (28th February) continuing during three days, we were of necessity compelled to remain in camp. During a short interval, about the 2d of March, the weather appearing to get more moderate, we were enabled to return for what cargo had been left behind during our former trip. It was taken onward as far as we dared, and we returned to the camp against a wind so keen, that no face escaped being frost-bitten—the strong wind, in this instance, being the cause rather than the degree of temperature, for this was comparatively moderate. On the morning of the 3d a lull of an hour or so enticed us to bundle up and lash our sleigh. No sooner had we done this, and proceeded a short distance, than the gale came on with redoubled fury, in consequence of which we had to hasten back to our snow retreat, and were glad

enough to have been still so near a shelter when caught by it, as we had much difficulty in keeping on our feet, from the violence of the whirling eddies that came sweeping along an exposed headland near us. Such was the force of the wind, that column after column of whirling spray was raised by it out of a continuous lane of water, more than a mile broad, which the present gale had opened out along the coast, at the distance of only a few yards from our present encampment. As these successive columns were lifted out of the water, they were borne onward with a speed scarcely less rapid than the 'wings of the wind' itself. Whilst detained here, we narrowly escaped being buried by an infant avalanche; a hardened mass of snow of several tons' weight having been disengaged from the summit of the cliff above us."

So severe did this part of the road prove, that the sledges, moccasins, and snow-shoes, were severely damaged. On the whole party being collected at Fury Beach, it was found necessary to send back to the ship for additional supplies. They were much indebted here to the old stores of the Fury, which were found to be in excellent preservation, although they had lain for thirty years exposed to the weather on the shores of these icy seas.

The journey on which they had now entered would occupy, it was supposed, about three months, during which time they hoped to survey upwards of a thousand miles. It was found, upon calculation, that six men could not carry a sufficient quantity of provisions to sustain them for so long a period; so the plan was adopted of taking fourteen men as far as Brentford Bay, from which point eight of the travellers were to return to the ship, while the remaining six would pro-

ceed onwards with as much as they could possibly drag or carry of the necessaries of life.

Among their provisions and equipments, procured from the old deposit at Fury Beach, were seven hundred and fifty pounds of pemmican, one small sack of flour, five gallons of spirits of wine, a hundred and twenty pounds of coal, four bags of biscuits, and various knives, saws, astronomical instruments, &c.

Of these old stores of the Fury, Kennedy says, he found the provisions "not only in the best preservation, but much superior in quality, after thirty years of exposure to the weather, to some of our own stores, and those supplied to the other Arctic expeditions. This high state of preservation I cannot help attributing in some measure to the strength and thickness of the tins, in which the preserved meats, vegetables, and soups, had been placed. The flour had all caked in solid lumps, which had to be reground and passed through a sieve before it was fit for the cook's hands. In other respects it was fresh and sweet as ever, and supplied us with a stock of excellent biscuit."

These articles, with the tackling and sledges, made altogether a total dead weight of about two thousand pounds; the whole being lashed down, to the smallest possible compass, on four flat-bottomed Indian sledges, two of which were drawn by the five dogs, assisted by two of the men, the other two being dragged by the rest of the party.

It was a fine, clear, mild day when they started, and they found the travelling very good at first, the beach being flat, and the ice sufficiently smooth to admit of proceeding with facility. Fortune, however, seldom favors Arctic travellers long. They soon found their bright sky overcast, and the mild breeze changed into a cold, bitter, frosty gale. Under these circumstances



they travelled from day to day, enduring it as stoically as possible, and making up to some extent for their discomfort while travelling by enjoying themselves beneath their snow-burrows during the few hours allotted to repose. The frost-biting of their faces, however, became at last so intolerable, that they fell upon the expedient of protecting the parts most vulnerable by means of sundry curious and original kinds of coverings. "For the eyes," says Kennedy, "we had goggles of glass, of wire-gauze, of crape, or of plain wood with a slit in the centre, in the manner of the Esquimaux. For the face, some had cloth-masks, with neat little crevices for the mouth, nose, and eyes; others were muffled up in the ordinary chin-cloth, and, for that most troublesome of the facial members, the nose, a strong party, with our always original carpenter at their head, had gutta-percha noses, lined with delicate soft flannel." These contrivances, though admirable in theory, proved complete failures in practice. They were ultimately discarded, with the exception of the chin-cloths and goggles.

The daily routine of operations was as follows: They rose at six, but did not *dress*—having slept in their clothes, that operation was unnecessary; then they breakfasted; after which came the bundling up and lashing of the sledges, and the harnessing of the dogs—the latter operation always being accomplished amidst considerable uproar. Then came the start; Kennedy leading the way, Bellot following, and the party in a string bringing up the rear. So on they went, over hill and dale and along shore, from morn till night, stopping every hour for five minutes to rest the men and breathe the dogs, and halting, when opportunity offered, to find their latitude and longitude. The construction of a snow-hut, and the consumption of the evening meal,

concluded the labors of the day, which were seldom over before nine or ten at night.

On the 6th of April they arrived at Brentford Bay, and the fatigue-party began their retrograde journey to the ship.

At this point Kennedy discovered a strait running westward, which was found to separate North Somerset from Boothia Felix, and was named Bellot Strait, in honor of the gallant young Frenchman, who had secured the affectionate regard not only of the leader of the party, but also of all the men. Thence Kennedy crossed over Victoria Strait to Prince of Wales Land, naming the most prominent headlands, bays, and islands. Numerous tracks of deer, wolves, bears, and musk-oxen, were seen; but none of the animals themselves, except one bear, which came incautiously close to the snow-hut, and was chased away by the dogs.

On the 17th April the thermometer indicated  $+22$ ; "a temperature," says Kennedy, "which, to our sensations, was absolutely oppressive. One of our dogs, through over-exertion, combined with the unusual heat, fainted in his traces, and lay gasping for breath for a quarter of an hour; but, after recovering, went on as merrily as ever. These faithful creatures were perfect treasures to us throughout the journey. They were all suffering, like ourselves, from snow-blindness, but did not in the least relax their exertions on this account. The Esquimaux dog is, in fact, the camel of these northern deserts; the faithful attendant of man, and the sharer of his labors and privations."

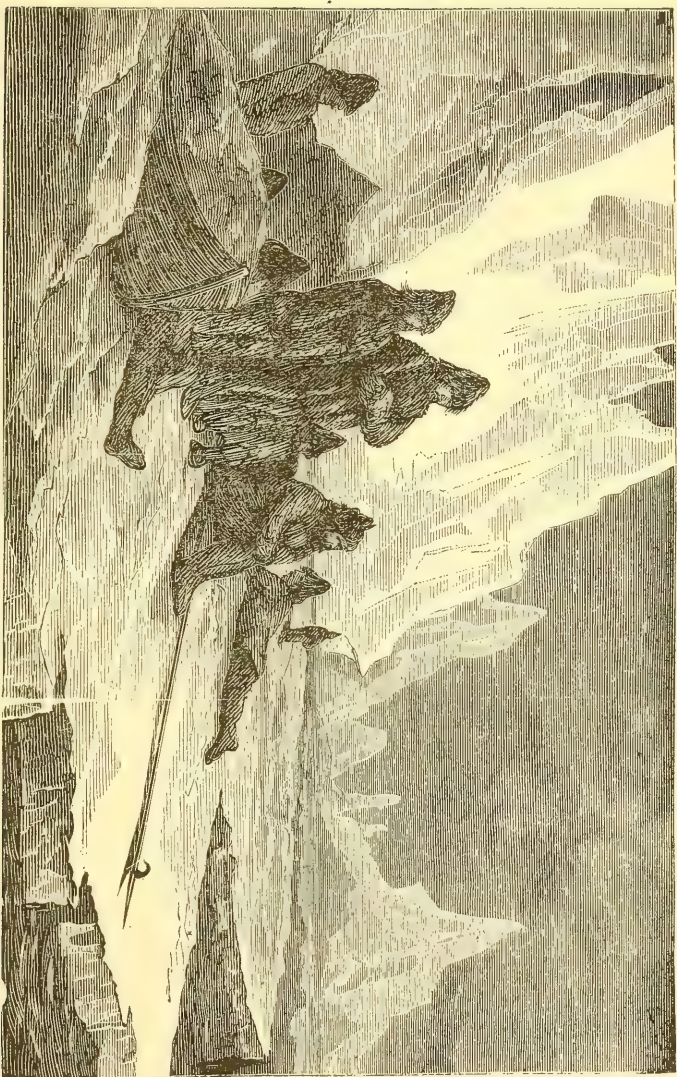
During a great portion of the journey the men were much annoyed by snow-blindness, caused by the fierce glare of the sun upon the snow; and this was rendered all the more unbearable by the sharp winds which prevailed so much, and dashed the drift into their eyes.

The country over which they travelled was generally very flat, rendering it a matter of no small difficulty to keep their westerly course, the compasses being of little use in such close proximity to the magnetic pole. Their great hope in travelling westward was, that they should meet with a sea which would conduct them northward to Cape Walker, and so enable them to ascertain whether or not there was any promising western channel or strait through which Franklin might have penetrated. After thirteen days' marching, however, they reached the hundredth degree of west longitude without meeting with the wished-for ocean; so it was resolved to turn their steps northward.

"Being now satisfied," says Kennedy, "that Sir James Ross had, in his land journey along the western shore of North Somerset, in 1849, mistaken the very low and level land over which we had been travelling for a western sea, I felt no longer justified in continuing a western course. Whatever passage might exist to the south-west of Cape Walker, I felt assured must now be on our north. I determined, therefore, from this time forward, to direct our course northward, until we should fall upon some channel which we knew must exist not far from us, in this direction, by which Franklin might have passed to the south-west."

The weather still continued boisterous and changeable. The channel of which they were in search was nowhere to be found. Scurvy, too, began to show itself among the men; so it was resolved to turn eastward again, and proceed towards the channel laid down to the east of Cape Bunny, which they resolved to follow up to Cape Walker.

During the march they met several herds of deer, and succeeded in shooting a few brace of ptarmigan. As they had no means of cooking them, however, they



KENNEDY AND HIS MEN ON AN ICE RAFT.





adopted the practice, common among Indians, of *freezing* them, and, while in this state, eating them raw ; and we are assured that a "frozen ptarmigan, after a hard day's march, is by no means an unwelcome addition to an Arctic traveller's bill of fare !"

At last they arrived at Cape Walker. Its bold and conspicuous headland first met their gaze on the 4th of May ; but here, as at Fury Beach, they were doomed to disappointment. Not a sign of Franklin's expedition having visited the spot was to be met with. Bellot carefully followed the windings of the rough ice outside the beach, in order to have a commanding view of the cliffs, while Kennedy searched along shore ; but all without success. Ignorant that he had been preceded by Captain Austin's parties, Kennedy mistook the large cairn they had erected for a part of the cliff, and actually *walked over a smaller one* deeply covered with snow, without for a moment suspecting that the spot had been previously visited. If the large cairns, formed by the parties of Ommaney and Osborne the previous spring, could thus be overlooked, might not signals erected by Franklin have been equally undistinguishable amid the deep snow which enveloped this bleak and rugged coast ?

Their stock of provisions now getting very low, Kennedy's party were obliged to go on short allowance ; and, to make it last longer, they fed the dogs, from this time forward, on "old leather shoes, and fag-ends of buffalo robes" — on which, we are told, "they thrived wonderfully." It is added that one old snarling brute, who had received the name of Boatswain from the men on account of his ill-nature, "never seemed thoroughly to enjoy his meals till put upon a course of old shoes."

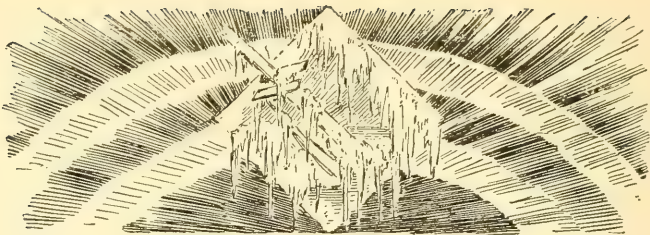
From this time the men grew worse and worse with scurvy ; but were much revived by lighting upon a

small dépôt of provisions, which had been left near Cape McClintock by Sir James Ross, in 1849. This enabled them to start again with vigor for Whaler Point, which they reached on the 15th, and at which place they remained until the 27th, making free use of the lime-juice, cranberries, etc., which were deposited there. After being sufficiently restored, they started on their return to the ship, which they finally reached on the 30th of May, having been absent ninety-seven days, during which time six men with five dogs had travelled about eleven hundred miles, dragging, for most of the way, two thousand pounds' weight, sleeping in snow-houses, encamping at times on frozen seas, and rarely having fire when they halted to recruit.

The travellers found that all had gone on well at Batty Bay, in their absence. Nothing now remained but to get the ship clear of ice and return home. But there was little as yet in the appearance of ice or land to indicate that June had returned, except the falling in of some of the snow-houses. Gradually, however, the fierce glare of the sun began to make itself felt; and, on the 6th of August, after some sawing and blasting, the imprisoned vessel was liberated. On the 19th Kennedy reached Beechey Island, where he found the dépôt-ship North Star, attached to Sir E. Belcher's expedition, engaged in sawing into winter quarters. On the 7th of October, 1853, the Prince Albert arrived in England.

In concluding his narrative, Kennedy remarks of the young Frenchman who was associated with him, and whose subsequent fate, in connection with the history of Arctic discovery, is interesting: "To Mr. Bellot, my constant companion, not only do I owe the most valuable assistance from his scientific attainments, but his amiable qualities have cemented a deep personal regard, which can only end with my life."

Meanwhile researches from the North American coast were renewed by Mr. Rae. He left Fort Confidence, on the Coppermine, April 25th, 1851, with four men and three sledges drawn by dogs. Reaching the coast May 1st, he found the ice favorable for travel. On the 5th he landed at Douglas Island, and on the 7th gained the opposite shore. Traversing it to the east, until he reached  $110^{\circ}$  W. longitude, where his survey met that of Dease and Simpson, he retraced his steps, and advanced west until he turned Cape Baring, past latitude  $70^{\circ}$ , and longitude  $117^{\circ}$  W. From some elevated ground in this neighborhood high land could be seen to the north, but none was visible to the west. He got back to his provision station on the Kendall River upon the 10th of June, having travelled eight hundred and twenty-four geographical, or nine hundred and forty-two English miles, in forty days. In this lengthened journey his arrangements were much the same as during his survey of Committee Bay. He slept in snow houses, and, as he advanced, buried provisions to serve for his return. In the months of July and August he explored the coast of Victoria Land, east and north, in boats; marking every indentation, from the 101st to the 117th degree of longitude — an achievement, under the circumstances, of which any officer might be proud. On this newly-discovered coast he met many parties of Esquimaux; but his inquiries as to the grand subject were all fruitless. The American coast had now been diligently examined, from the entrance of Behring's Strait to the head of Hudson's Bay; and the conclusion was, that Franklin never reached so low a latitude



## CHAPTER XVI.

SIR EDWARD BELCHER'S EXPEDITION.—ARRIVAL IN BAFFIN'S BAY.—THE AMERICAN WHALER.—ARRIVAL AT BEECHEY ISLAND.—SEARCH COMMENCED.—INGLEFIELD'S VOYAGE.—THREE MORE EXPEDITIONS.—INGLEFIELD'S RETURN.—NEWS FROM M'CLURE.—PARRY AND FRANKLIN.—M'CLURE'S EXPLORATIONS.—ADVENTURES WITH ESQUIMAUX.—PERILOUS NAVIGATION.—DISCOVERY OF THE NORTH-WEST PASSAGE.—PERSONAL PERILS.—ABUNDANCE OF GAME.—WINTER QUARTERS.—SLEDGE-PARTIES.—STILL FROZEN UP.—PLAN OF ESCAPE.

THE unexpected and somewhat premature return of the squadrons under command of Captains Austin and Penny, in the autumn of 1851, increased the universal desire that the mysterious fate of Sir John Franklin's expedition should be thoroughly investigated. The interesting details brought back of the discovery of Franklin's winter quarters on Beechey Island, in 1845-46, revived the hopes that had begun to fade rapidly away. The opinion of those engaged in the sledging operations of 1851, that the missing ships had proceeded up Wellington Channel, and entered the open sea discovered by Captain Penny, and believed by him to be the great polar basin, — and the supposition that the lost ones might still be imprisoned, and alive, in its gloomy solitude of ice, — all tended to influence the public mind in favor of a continuance of the search.

Accordingly, in the spring of 1852, another expedition — the most extensive that had yet sailed for the polar regions — was fitted out, and placed under the command of Sir Edward Belcher. This squadron consisted of five vessels — the *Assistance*, the *Resolute*,

the *North Star*, and two steamers, the *Pioneer* and *Intrepid*. These set sail in April for Baffin's Bay, purposing to make Beechey Island their head-quarters, whence the various vessels were to set out, separately or together, as might be thought best, to search the neighboring coasts. The *Assistance* and *Pioneer* were directed to sail up Wellington Channel, under the command of Sir Edward Belcher. The other two were to proceed, under Captain Kellett, to Melville Island, there to deposit provisions for the use of Captain Collinson and Commander M'Clure, should these gentlemen be successful in making the passage from Behring's Strait, for which they had set sail, it will be remembered, in January, 1850. The *North Star* was to remain at Beechey Island, as a *dépôt* store-ship.

The squadron sailed from England on the 28th April, 1852. On the 6th of July it was making its way through the ice in Baffin's Bay, in company with a fleet of whalers, which were there beset. Caught at the head of a bight in the ice, with the *Assistance* and the *Pioneer*, the *Resolute* was, for the emergency, docked there; and, by the ice closing behind her, was for a while detained. Meanwhile the rest of the fleet, whalers and discovery ships, passed on by a little lane of water, the American whaler *McLellan* leading.

The *North Star*, of the English squadron, followed the *McLellan*. A long train stretched out behind, -- whalers and government ships, as they happened to fall into line, -- a long three quarters of a mile. It was lovely weather, and, though the long lane closed up so that they could neither go back nor forward, nobody apprehended injury, till it was announced, on the morning of the 7th, that the *McLellan* was nipped in the ice, and her crew were deserting her. Sir Edward Belcher sent his carpenters to examine her, put a few charges of



powder in the ice to relieve the pressure upon her, and by the end of the day it was agreed that her injuries could be repaired, and her crew went on board again. But the next morning there was a fresh wind, the McLellan was caught again, and the water poured into her, a steady stream. She drifted about, unmanageable, now into one ship, now into another; and the English whalemén began to pour on board, to help themselves to such plunder as they chose. At the captain's request, Sir Edward Belcher, to put an end to this, sent sentries on board; and he also sent working parties, to clear her as far as might be, and keep account of her stores. In a day or two more she sank to the water's edge, and a charge or two of powder put her out of the way of harming the rest of the fleet. After such a week spent together, it will easily be understood that the New London whalemén did not feel strangers on board one of Sir Edward's vessels, when, as we shall see, they found her "ready for occupation," three years and more afterwards.

On the 10th August the squadron reached its appointed head-quarters at Beechey Island. The season was remarkably open; Wellington Channel and Barrow's Straits were equally clear of ice. On the 14th Sir E. Belcher, with the Assistance and Pioneer, stood up the channel; and the following day Capt. Kellett, with the Resolute and Intrepid, sailed in open water for Melville Island. In this position we leave the expedition for the present, and proceed to give an account of the next that entered the field.

In consequence of the report, set afloat by Sir John Ross, on the authority of his Esquimaux interpreter, that Franklin and his crews had been murdered, by the natives, at Wolstenholme Sound, Lady Franklin refitted the Isabel screw-steamer, and sent her out, under Com-

mander Inglefield, to ascertain the truth of the story. Inglefield sailed from England on the 6th July, 1852 coasted the northern shores of Baffin's Bay; advanced much further up Whale Sound than any previous navigator, — finding, as he proceeded, an immense expanse of open water; and pushed through Smith's Sound as far as latitude  $78^{\circ} 28' 21''$  north, without discovering any opposing land. Instead of the narrow strait which Smith's Sound has usually been thought, Captain Inglefield found it about thirty-six miles across, expanding considerably as it extended northward. The sea was open — that is, free from islands, except one looming in the extreme distance, to which the discoverer gave the name of Louis Napoleon.\* From appearances, the leader of the expedition inferred that he had reached a more genial climate than that of Baffin's Bay; instead of the eternal snow which he had left behind, the rocks appeared of their natural color. There was ice, indeed, and in pretty large quantities; some of the mariners conceived they saw an ice-blink to the north; but the captain thought he could steam through. A gale, however, arose, which, increasing in violence, fairly blew them back — perhaps providentially, for they were not well fitted to winter in those high latitudes, with the probability of being held fast for an indefinite time.

“It was deemed, by every one on board, madness to attempt a landing; and thus,” says Inglefield, “I was forced to relinquish those desires ere we bore up, which,

\* “An island similar in position to that designated by Capt. Inglefield as Louis Napoleon does not exist. The land sighted in that direction may have been the top of a high mountain on the north side of Franklin Pierce Bay, though this supposition requires us to assume an error in the bearing; for, as given in the chart, no land could be within the range of sight. In deference to Capt. Inglefield, I have continued for this promontory the name which he had impressed upon it as an island.” — *Kane's Narrative of the Second Grinnell Expedition*, vol. 1., page 323

with the heavy gale that now blew, was the most prudent step I could take. The rest of the 27th and the following day were spent in reaching, under snug sail, on either tack, whilst the pitiless northerly gale drove the sleet and snow into our faces, and rendered it painful work to watch for the icebergs, that we were continually passing. On this account, I could not heave the ship to, as the difficulty of discerning objects rendered it imperative that she should be kept continually under full command of the helm. The temperature, 25°, and the continual freezing of the spray, as it broke over the vessel, combined with the slippery state of the decks from the sleet that fell and the ice which formed from the salt water, made all working of ropes and sails not only disagreeable, but almost impracticable ; so that I was not sorry when the wind moderated.

“ By four A. M., of the 29th, it fell almost to a calm ; but a heavy swell, the thick fog and mist remaining, precluded our seeing any distance before us ; and thus we imperceptibly drew too near the land-pack off the western shore, so that, a little after Mr. Abernethy had come on deck, in the morning watch, I was called up, as he said that the ship was drifting rapidly into the ice. Soon on deck, I found that there was no question on that score ; for even now the loose pieces were all round us, and the swell was rapidly lifting the ship further into the pack, whilst the roar of waters, surging on the vast floe-pieces, gave us no very pleasant idea of what would be our fate if we were fairly entrapped in this frightful chaos. The whale-boat was lowered, and a feeble effort made to get her head off shore ; but still in we went, plunging and surging amongst the crushing masses.

“ While I was anxiously watching the screw, upon which all our hopes were now centred, I ordered the

boiler, which had been under repair, and was partly disconnected, to be rapidly secured, the fires to be lighted, and to get up the steam; in the mean time the tackles were got up for hoisting out our long-boat, and every preparation was made for the worst. Each man on board knew he was working for his life, and each toiled with his utmost might; ice-anchors were laid out, and hawsers got upon either bow and quarter, to keep the ship from driving further in; but two hours must elapse before we could expect the use of the engine. Eager were the inquiries when *will* the steam be up? and wood and blubber were heaped in the furnace to get up the greatest heat we could command.

“At last the engineer reported all was ready; and then, warping the ship’s head round to seaward, we screwed ahead with great caution; and at last found ourselves, through God’s providence and mercy, relieved from our difficulties. It was a time of the deepest suspense to me; the lives of my men and the success of our expedition depended entirely on the safety of the screw; and thus I watched, with intense anxiety, the pieces of ice, as we drifted slowly past them; and, passing the word to the engineer, ‘Ease her,’ ‘Stop her,’ till the huge masses dropped into the wake, we succeeded, with much difficulty, in saving the screw from any serious damage, though the edges of the fan were burnished bright from abrasion against the ice.”

Besides penetrating one hundred and forty miles further than previous navigators, and finding an open sea stretching northwards, from Baffin’s Bay, to at least the latitude of  $80^{\circ}$ , Captain Inglefield discovered a strait, in about  $77\frac{1}{2}^{\circ}$ , which he named Murchison Strait, and which he supposed to form a northern boundary to Greenland. In addition to the shores of the polar basin, he more accurately surveyed the eastern

side of Baffin's Bay, from Carey's Islands to Cape Alexander, often remaining on deck the four-and-twenty hours round — for night there was none. He entered Jones's Sound, but was stopped by the ice, and came to the conclusion that there is no available channel from the sound into the polar basin, though there is possibly some narrow frozen strait. Inglefield then made for Beechey Island, where he arrived on the 7th September, and where he met the *North Star*, the dépôt ship of the Admiralty expedition. Thence, after a short delay, he shaped his course homeward. In spite of the advancing season, he examined a considerable part of the western coast of Baffin's Bay; and, though sorely beset on more than one occasion, managed to get through, and reached Stromness on the 4th of November — exactly four months from the date of his departure from Woolwich.

It is hardly necessary to add that Inglefield's investigations established the utter falsity of the story told by Sir John Ross's interpreter.

In the beginning of the year 1853 three expeditions were fitted out, partly to continue the search for Franklin, and partly to reinforce the vessels already in the field of action. The *Rattlesnake*, under Commander Trollope, and the *Isabel* screw-steamer — again refitted by Lady Franklin, and placed under the command of Mr. Kennedy — sailed for Behring's Strait, in order to carry supplies to Captains Collinson and M'Clure. Mr. Rae was again despatched to the Isthmus of Boothia, to make a further examination of the coast in that quarter; and Commander Inglefield was sent to Barrow's Straits, with the *Phoenix* and the *Lady Franklin*, to reinforce the squadron under Sir E. Belcher. Mr. Grinnell, of New York, aided by Mr. Peabody, of London, also fitted out an expedition, under the command of Dr. E. K. Kane, and sent it to explore the passages leading out



of Baffin's Bay into the unknown ocean around the pole.

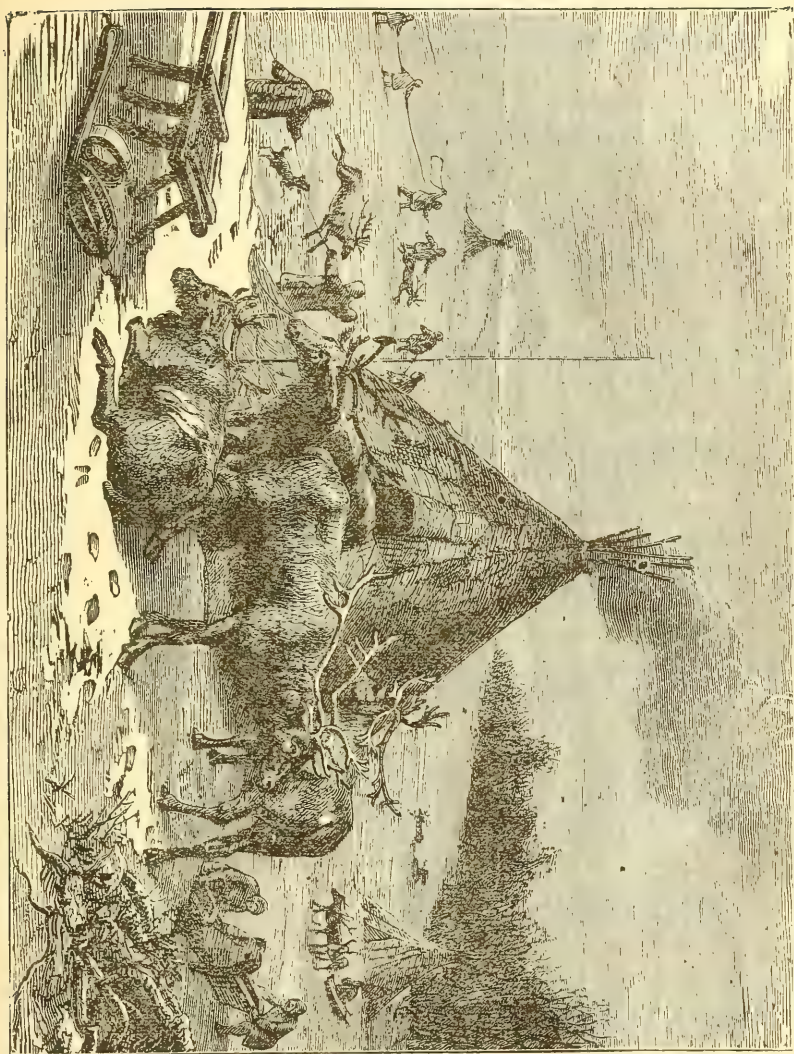
In the autumn of 1853 the deep interest of the British nation was aroused by the return of Captain Inglefield, in the *Phoenix*, with despatches conveying the intelligence that the north-west passage had at length been discovered by Captain M'Clure, of the *Investigator*, who had passed through Behring's Strait, and sailed to within a few miles of the most westerly discoveries made from the eastern side of America, at which point he had been frozen up for more than two years, and where his ship still lay, unable to advance or to retreat. No vessel had yet made the entire passage ; but, from the two extreme points of discovery, on either side, parties from the *Investigator* had walked over the frozen ocean ; and one gentleman — namely, Lieut. Cresswell, the bearer of despatches from Captain M'Clure — had sailed from England, entered Behring's Strait, and returned again to England by the Atlantic Ocean, having thus passed through the long-sought north-west passage.

This interesting intelligence, coupled with the announcement of M'Clure's safety, concerning which much anxiety had begun to be felt, was joyfully received ; and Lieut. Cresswell, the bearer of the good news, was treated with marked attention in England. At a public dinner, given him in his native town of Lynn, Sir Edward Parry, who was present, made some remarks on the probable fate of Sir John Franklin, which will be read with interest in this connection :

“ While we are rejoicing over the return of our friend, and the probable return of his shipmates, we cannot but turn to that which is not a matter of rejoicing, but rather a matter of sorrow and regret — that there has not been found a single token of our dear long-lost Franklin and

his companions. Not only has that been the case in the expedition in which Lieut. Gurney Cresswell has been engaged, but I understand it to be the case with Sir Edward Belcher, who has gone up the Wellington Inlet, where I certainly thought traces must be found, because at Beechey Island we knew Franklin passed the first winter when he went out. There we found three graves of his men,—and that is, up to the present moment, the only token whatever we have received of him. I do consider it a most mysterious thing, and I have thought of it as much as anybody. I can form but a single idea of the probable fate of Franklin. I do not agree with our friend Gurney Cresswell about the probability of both ships having gone down, and nothing been seen of them, because, although it is true that nothing might have been seen of the ships themselves, I do not believe the crews would have all perished at one moment. I think there is that stuff and stamina in one hundred and thirty Englishmen, that, somehow or other, they would have maintained themselves as well as a parcel of Esquimaux would. They would have found the Esquimaux, and there would have been something like a trace of them, if they had been on earth. The only thing which I can suggest is this: Wellington Strait was discovered by myself, on the expedition I spoke of. It is a large opening from Lancaster Sound.

“When I was going up westward from Melville Island, we saw Wellington Strait perfectly free from ice, and so I marked it on my chart. It was not my business to go north as long as I could get west, and, therefore, we ran past and did not examine it; but it has always been a favorite idea of those who imagined that the north-west passage was to be easily made by going north. That, we know, was the favorite idea of





Franklin; and we know he did intend, if he could not get westward, to go up Wellington Channel. We have it from his own lips. My belief is still that, after the first winter, he did go up that channel; and that, having steam power (which I had not in my time), it is possible he may have gone up in a favorable season; for you cannot imagine anything more different than a favorable and an unfavorable season in those regions. You cannot imagine the changes that take place in the ice there. I have been myself sometimes beset for two or three days together by the ice, in such a way that from the mast-head I could not see sufficient water to float that bottle in; and in twenty-four hours there was not a bit of ice to be seen — nobody could tell why — I cannot tell why; and you might have sailed about as you may in your own river, as far as ice is concerned.

“Therefore, in a favorable season he may have gone up that inlet, and may, by the power of steam and favorable circumstances, have got so far to the northeast that, in an ordinary season, he could not get back again. And those who knew Franklin know this — that he would push on, year after year, so long as his provisions lasted. Nothing could stop him. He was not the man to look back, if he believed the thing was still possible. He may have got beyond the reach of our searching parties; for Sir Edward Belcher has not been able to get far up, and we have not been able to get the investigation completed. In speaking of Franklin, every one will feel sorrow for his probable fate. My dear friend Franklin was sixty years old when he left this country; and I shall never forget the zeal, the almost youthful enthusiasm, with which that man entered upon that expedition. Lord Haddington, who was then first lord of the Admiralty, sent for me, and said, ‘I see, by looking at the navy-list, that Franklin is sixty



years old: do you think we ought to let him go?' I said, 'He is a fitter man to go than any I know; and if you don't let him go, the man will die of disappointment.' He did go, and has been gone eight years; and, therefore, I leave to yourselves to consider what is the probability of the life of that excellent and valuable man. In the whole course of my experience I have never known a man like Franklin. I do not say it because he is dead — upon the principle *de mortuis nil nisi bonum*; but I never knew a man in whom different qualities were so remarkably combined. In my dear friend Franklin, with all the tenderness of heart of a simple child, there was all the greatness and magnanimity of a hero."

To this touching tribute, from the lips of a fellow-navigator, we append the following beautiful lines, quoted by a writer in one of the British quarterly reviews:

"Where is he? — where? Silence and darkness dwell  
About him; as a soul cut off from men:  
Shall we behold him yet a citizen  
Of mortal life? Will he return to tell  
(Prisoner from Winter's very citadel  
Broken forth) what he before has told, again  
How to the hearts and hands of resolute men,  
God aiding, nothing is impossible?  
Alas! the enclosure of the stony wave  
Is strong, and dark the depths of polar night;  
Yet One there is omnipotent to save,  
And this we know, if comfort still we crave,  
Into that dark he took with him a light —  
The lamp that can illuminate the grave."

It will be remembered that Captains Collinson and M'Clure sailed for Behring's Strait in 1850, through which, in connection with the Plover and Herald, they endeavored to pass, but without success, except in the case of the Investigator (Captain M'Clure), which was

seen on the 4th August, 1850, bearing gallantly into the heart of the "polar pack." The *Enterprise* (Captain Collinson), finding it impossible to follow, sailed to Hong-Kong, and wintered there; but in May, 1851, returned to Behring's Strait, and succeeded in entering the ice. The *Plover* remained at Port Clarence, as a reserve for these two vessels to fall back upon, while the *Herald* returned to England. From that date nothing was heard of these two vessels, until the arrival of the *Phoenix*, with the despatches of Captain M'Clure, bringing assurance of the safety of the *Investigator*.

On parting company with the *Herald* in Behring's Strait, in July, 1850, Captain M'Clure stood to the north-north-west, with a fresh breeze, with the intention of making the ice, which was accomplished on the 2d of August. During several days the *Investigator* battled with the foe—now boring through densely-packed masses, and then winding among the lanes which opened here and there as the currents or winds acted upon the pack. Occasionally they struck with considerable violence, but succeeded, at length, in rounding Point Barrow, and discovered clear water on the afternoon of the 7th—so far ahead, however, that it could only be seen from the "crow's nest."

Hundreds of walrus were seen huddled together on the ice, like sheep in a fold. M'Clure seems to have been rather favorably impressed in regard to these animals, on account of the affection shown by the mothers for their young. He would not allow them to be shot.

The most remarkable feature of the walrus consists in two teeth, or tusks, which project in a curved line from the upper jaw, and are nearly two feet in length. They are of beautiful white bone, almost equal to ivory, and much used in the fabrication of artificial teeth. The front face, when seen at a little distance, bears a striking

resemblance to the human ; and its appearance is suspected to have sometimes given rise to the fanciful reports of mermaids in the northern seas. The walrus is monogamous, and the mother brings forth her young only one at a birth, either on the shore or on the ice. Like all the cetaceous tribes, to which the walrus is allied, he is disposed to be peaceful and harmless. Parry describes the supine security with which a number of them lay on the ice, piled over each other, without discomposing themselves at the approach of a party armed for their destruction. In Spitzbergen, however, where they have been long the object of chase to the Russian hunters, they are reported to keep very strict watch ; it being said that one stands guard while the others sleep. Even when sensible of danger, they are not forward to face it, but rather shun the attack by rushing beneath the ice, while those behind, with their tusks, urge forward their companions. Yet, when they are compelled to combat, they give battle with the utmost coolness and courage ; they then stand firm by each other, rush in one united body against the boats (as in the attack on the Trent's boat, page 71), and, striking with their tusks, endeavor to overset them. When repulsed, too, they repeatedly rally, and in the end yield only to the fire-arms of Europeans, or to the stratagems of the Esquimaux. Maternal tenderness, and the determination with which the female defends her young, are equally conspicuous in them as in the whale species. The walrus must live near open water.

"The wind," writes McClure, "almost immediately failing, the boats were all manned, and towing commenced amid songs and cheers, which continued, with unabated good-humor, for six hours. Being in perfectly clear water in Smith's Bay, a light air springing up, we worked to the eastward. At two A. M. of the 8th, being

off Point Drew, I sent Mr. Court (second master) on shore to erect a cairn, and bury a notice of our having passed. Upon landing, we were met by three natives, who at first were very timid; but, upon exchanging signs of friendship, which consisted of raising the arms three times over the head, they approached the boat, and, after the pleasant salutation of rubbing noses, became very communicative; when, by the assistance of our valuable interpreter, Mr. Miertsching, we found the tribe consisted of ten tents (this being the only approach to their numbers he could obtain); that they had arrived only three days previously, and that they hold communication with a party inland, who trade with the Russian Fur Company." They had observed us the evening before, and had thought our masts were trees in motion, and wondered at the sight.

The natives seen here had spent their lives between the Coppermine River and Point Barrow; and, from the circumstances of their not having met with any of Franklin's party, M'Clure concludes that the latter could not have been lost on these shores. "The coast," says he, "is inhabited throughout, and the natives are, to all appearance, a kind and merry race; and, when we gave them presents, through the medium of the interpreter, we told them that we were looking for our lost brothers, and if they saw any white men in distress they were to be very kind; to which they assented by saying that they would, and would give them 'plenty of deer's flesh.'"

So narrow was the passage of open water between the ice and the shore, along which the Investigator had to pass, that she had great difficulty sometimes in tacking, — requiring to do so, in some places, nearly every ten minutes; and, on one occasion, they actually took the ground while "in stays." Fortunately the bottom

was soft clay, and they hove off again immediately. Gradually, however, the lane widened, the reaches became longer and longer, and all apprehension of being forced on shore was soon over. On the 10th of August, 1850, they passed the mouth of the Colville River, the influence of which stream was found to extend twelve or fourteen miles out to sea; the surface, at that distance from shore, being of a dirty mud-color, and scarcely salt.

At this part of the coast they again fell in with natives, who came off in two *baidars*, to the number of thirty. A very animated and curious scene ensued. A vigorous barter was immediately commenced, after the curiosity of the wondering Esquimaux with regard to the ship was satisfied. Their imitative propensity was rather oddly brought into play during the traffic. Seeing the sailors cut the tobacco into pieces, to give in exchange for salmon-trout, they at once began to do the same with the fish! but were soon checked in this, and were obliged to succumb to the white men.

During the afternoon, while standing along a low flat island, a pair of seal-skin inexpressibles were observed fluttering from the top of a pole, held up by a number of natives, who took this method of intimating their desire to receive a visit. In obedience to the signal, the boats were lowered, and pulled in to the shore. The Esquimaux appeared to regret their temerity, however; for, on the near approach of the sailors, the inexpressibles were dropped, and the whole tribe fled. As usual, however, they regained courage on observing the friendly gesticulations of the white men, and soon approached them, tossing up their arms, and making other signs of friendship; ending, at last, by rubbing noses with, and affectionately embracing, the gallant tars



These poor people had never seen white men before : they had no article of European manufacture about their persons, and spent their lives in hunting walruses and seals on these low islands during the summer months, retiring to their warm residences on the mainland during winter. After holding some communication with them, through the medium of the interpreter, Captain M'Clure left them, having first made them a few presents, and, among other things, a boat's ensign, in commemoration of the first man-of-war whose flag has floated over these sterile regions. The magnificence of this latter gift quite astounded them, and caused them to rush tumultuously to their canoes to carry it off to their women, who were encamped on another island close at hand.

Some of these primitive people were apparently addicted to stealing. While M'Clure was placing some presents in the right hand of a chief, in token of good will, he felt the fellow's left hand in his pocket. The Esquimaux, however, laughed heartily when they were caught in their thefts ; and so the Englishmen thought best to do the same, and not allow peccadilloes to mar the harmony of their intercourse.

Coasting along, as they found opportunity, the voyagers advanced slowly — sometimes with much and sometimes with little water — till the morning of the 13th when the ice closed round, and hemmed them in completely. In this dilemma, the boats were sent to sound, and shortly returned, reporting a practicable passage in three fathoms water. Unfortunately, they hit on a spot with only two and a half fathoms, and so were soon fast aground. As it turned out, however, the bottom was sandy, so that no damage was done to the ship ; but one of the whale-boats, which contained part of the cargo taken out to lighten the vessel, upset, and eleven casks of salt beef were lost. This was a serious loss at

such a time. After five hours' hard work, they got once more into deep water.

In this way they continued to coast along the margin of the pack for about four or five hundred miles, when it became somewhat more open. It was now resolved to shape a course to the north-north-west for Banks's Land. In doing this, however, they were frequently obliged to alter, and often to retrace their course, owing to the deceptive nature of the lanes of water, and the perplexing fogs that constantly prevailed, obliging them to proceed chiefly by soundings.

On the 21st of August they passed the mouth of the Mackenzie River, and made the Pelly Islands. Soon after, they reached Warren Point, where natives were seen on the shore; and as M'Clure wished to forward despatches by them, if possible, to the Hudson's Bay Company's posts on the Mackenzie, the boats were ordered out. M'Clure believed the natives to have been in connection with these posts, and expected a friendly reception from them. "Great, therefore," says he, "was my surprise, upon approaching the beach, to find, instead of being greeted by the usual friendly signs, that two savages, with gesticulations the most menacing, having bended bows, with arrows on their strings, and one with a large knife, which he brandished most significantly, waved us off. Taking no heed of these hostile demonstrations, we pulled in; they retreated, yelling furiously. Upon our reaching the beach, we made the same signs of friendship which we had used with the Esquimaux further west, but without any effect, until joined by the interpreter, who was in full native costume. This gave them confidence, and, upon his explaining our friendly intentions, they approached; but when within about thirty yards, remarking some muskets which the boat's crew had, their fury revived. To pacify them,

they were laid upon the ground, where they became the object of a cautious examination. Still unsatisfied, they beckoned to take them to the boat. Seeing that nothing short of this would allow of any communication, I sent them away, when they approached, and permitted us to examine their bows and arrows."

It was found that these Esquimaux had no communication with the Mackenzie, in consequence of their being at war with the neighboring tribes, and having had several skirmishes with the Indians of that quarter. This may in some measure account for their fierce dispositions, so very different from those previously met with. A flat brass button was observed suspended from the ear of one of the chiefs of this tribe; and, on being questioned as to where he got it, he replied that "it had been taken from a white man who had been killed by one of his tribe. The white man belonged to a party which had landed at Point Warren, and there built a house; nobody knew how they came, as they had no boat; but they went inland. The man killed had strayed from the party, and he (the chief) and his son had buried him upon a hill at a little distance."

No satisfactory or intelligible reply could be got as to when this event occurred. M'Clure remained at this place for a short time to investigate the matter, but only found two huts, which, from the rottenness of the wood of which they were built, appeared to be of a very old date indeed. The grave of the white man was not found.

All along this coast they met with parties of natives, who almost invariably showed a hostile front on their first appearance, and as invariably became amicable after a little coquetting. In these interviews they had frequently curious scenes, especially in the distribution of presents to some natives near Cape Bathurst, who

could scarcely be restrained when the gaudy gifts were presented to their longing eyes. Mr. Miertsching, the interpreter, was always of the greatest use on these occasions, and won so much the esteem of one old chief, that, in the fulness of his heart, he prayed him to stay with the tribe forever; and, by way of inducement to do so, presented him with his daughter, a pretty girl of about fifteen, to be his wife, assuring him, at the same time, that a tent, and all the etceteras of an Esquimaux establishment, should be given to him along with her! They were frequently invited to partake of native hospitality in the shape of roasted whale and venison, besides salmon, blubber, and other Arctic delicacies.

Great numbers of whales were seen about this time; also a polar bear on a fragment of ice. On the 5th of September, the hopes of the navigators were suddenly raised, and as speedily cast down again. "The weather," says M'Clure, "which had been squally, accompanied by a thick fog during the early part of the day, cleared towards noon, when a large volume of smoke was observed about twelve miles south-west. . . . As divers opinions were in circulation respecting its probable cause, and the ice-mate having positively reported that from the crow's nest he could distinguish several persons moving about, dressed in white shirts, and observed some white tents in the hollow of the cliff, I certainly had every reason to imagine they were a party of Europeans in distress; for I was convinced that no travellers would remain for so long a period as we had remarked the smoke, for their pleasure; therefore, to satisfy myself, equally as others, I determined to send a boat on shore, as it was now calm. The first whale-boat, under Lieut. Cresswell, with Dr. Armstrong and Mr. Miertsching, was despatched to examine into the

cause, who, on their return, reported that the smoke emanated from fifteen small mounds of volcanic appearance, occupying a space of about fifty yards, the place strongly impregnated with sulphur, the lower mounds being about thirty feet above the sea-level, the highest about fifty feet. The land in its vicinity was blue clay, much intersected with ravines and deep water-courses, varying in elevation from three hundred to five hundred feet; the mark of a reindeer was traced to a small pond of water immediately above the mounds. Notice of our having landed was left, which would not long remain, as the cliff is evidently rapidly crumbling away. Thus the mystery of the white shirts and tents was most satisfactorily explained."

At four A. M. of the 6th they were off the small islands, near Cape Parry, bearing north-east-by-north, with a fine westerly breeze. The same day, high land was observed on the port-bow, on the western shore of which the main body of the ice rested. This was the first sight obtained of *terra incognita*. Hitherto they had been sailing along a shore which had in former years been surveyed, on foot and in boats, by Franklin, Back, Dease, Simpson, and others; although, indeed, theirs was the first *ship* that had sailed in these waters; but the land which now appeared to them on the left bow was quite new. Accordingly, they hove to, and landed and took possession in the name of her majesty, calling it "Baring's Island," in honor of the first lord of the Admiralty. The south cape of this land, a fine, bold headland, rising almost perpendicularly to the height of about a thousand feet, was named "Lord Nelson's Head." The latitude was found to be  $71^{\circ} 6'$  north, longitude  $123^{\circ} 0'$  west. A note of their progress being deposited here, they returned to the ship and sailed along the eastern coast, as being freer from ice than



that on the west. It was afterwards found that the land taken possession of, instead of being an island, was the southernmost point of the shore which had been named "Banks's Land," by Parry, in 1820. The name Baring Island was accordingly changed to Baring Land.

"We observed," writes M'Clure, "numerous traces of reindeer, hare, and wild-fowl. Moss, and divers species of wild-flowers, were also found in great abundance; many specimens of them, equally as of other subjects of interest to the naturalist, were selected, with much care, by Dr. Armstrong. From an elevation obtained of about five hundred feet, we had a fine view towards the interior, which was well clothed with moss, giving a verdant appearance to the ranges of hills that rose gradually to between two thousand and three thousand feet, intersected with ravines, which must convey a copious supply of water to a large lake situated in the centre of a wide plain, about fifteen miles distant. The sight to seaward was favorable in the extreme; open water, with a very small quantity of ice, for the distance of full forty miles toward the east, insured good progress in that direction."

At noon, September 9th, 1850, observations placed the Investigator only *sixty* miles from Barrow's Strait. "I cannot," writes M'Clure, "describe my anxious feelings. Can it be possible that this water communicates with Barrow's Strait, and shall prove to be the long-sought north-west passage? Can it be that so humble a creature as I am will be permitted to perform what has baffled the talented and wise for hundreds of years? But all praise be ascribed unto Him who hath conducted us so far in safety. His ways are not our ways: nor the means that He uses to accomplish his ends within our comprehension. The wisdom of the world is foolishness with Him." Land was observed to

the eastward, to which M'Clure gave the name of Prince Albert's Land. Several remarkable peaks appeared to be of volcanic origin.

On the 16th the Investigator was making slow progress toward Barrow's Strait; and on the 17th of September, 1850, they reached their most advanced position, in latitude  $73^{\circ} 10'$  north, and longitude  $117^{\circ} 10'$  west, *about thirty miles* from the waters of that series of straits, which, under the names of Melville, Barrow, and Lancaster, communicate with Baffin's Bay. At this tantalizing distance the ship ceased to drift, and the ice appeared to have reached a point beyond which some unknown cause would not allow it to proceed. The heavy pack of Melville Strait, lying across the head of the channel, was supposed to be the reason of the ice of Prince of Wales Strait ceasing to move on to the north-east; and the impassable nature of the pack in the same direction, in the following year, confirmed this hypothesis.

On the 9th of September M'Clure tells us he had debated in his mind whether to abandon all hope of reaching Barrow's Strait that year, and retrace his course southward in search of a wintering place, or to hold on, so far as he might, and run the risk of wintering in the pack. "I decided," he says, "on the latter of these two courses;" and the consideration which influenced him in this difficult choice was, "that to relinquish the ground obtained through so much labor and anxiety, for the remote chance of finding safe winter quarters, would be injudicious, thoroughly impressed as I was with the absolute importance of retaining every mile to insure any favorable results while navigating these seas." Besides this, it was desirable to hold as advanced a position as possible, in order that the spring sledge

parties in 1851 might be at once set to work upon new and unsearched coast-lines.

The smallest pools of water now became rapidly covered with ice ; the eider-duck, the hardiest of Arctic birds, was last seen on the 23d of September. On the 27th, the temperature being then at zero, preparations were begun for housing over the ship. These preparations were made under circumstances that might well shake the nerves of a strong man. As the ice surged, the ship was thrown violently from side to side, now lifted out of water, now plunged into a hole. "The crushing, creaking, and straining," says Captain M'Clure, in his log, "is beyond description ; the officer of the watch, when speaking to me, is obliged to put his mouth close to my ear, on account of the deafening noise."

The officers had just time to congratulate themselves upon the escape from past dangers, and to express gratitude at having lost only thirty miles of latitude by the drifting of the pack, when a change of wind set it all again in motion. The 28th was spent in breathless anxiety, as, helpless in their icy trammels, they swept northward again toward the cliffs of Princess Royal Island.

These cliffs rose perpendicularly from the sea at the part against which the ship appeared to be setting, and, as the crew eyed them for a hope of safety, if the good craft should be crushed against their face, they could see no ledge upon which even a goat could have established a footing, and an elevation of four hundred feet precluded a chance of scaling them. To launch the boats over the moving pack was their sole chance, — and that a poor one, rolling and upheaving, as it was, under the influence of wind, tide, and pressure.

"It looks a bad job, this time," inquiringly remarked one of the sailors, as he assisted another in coiling down

neatly a frozen hawser. "Yes!" was the rejoinder, as the other shaded his eyes from the driving snow, and cast a glance at the dark cliff looming through the storm, "the old craft will double up like an old basket when she gets alongside of them rocks!"

The Investigator's hour was not yet come, however; and, when within five hundred yards of the rocks, the ice *coach-wheeled* her along them, and finally swept her past the islands upon the eastern side.

No water was in sight from the mast-head; yet onwards they drifted slowly, and on the 30th became again stationary, in latitude  $72^{\circ} 50' N.$ , and longitude  $117^{\circ} 55' W.$ , very nearly as far north as they had sailed a fortnight before.

"On the 8th of October," says M'Clure, "our perplexities terminated with a nip that lifted the vessel a foot, and heeled her four degrees to port, in consequence of a large tongue getting beneath her, in which position we quietly remained." Here the Investigator passed the winter of 1850-51.

From the 10th to the 21st of October, preparations were made to despatch a sledge-party to the northward to reach Barrow's Strait, and get assurance of the fact of the discovery of a north-west passage. A remarkable rise of temperature to  $24^{\circ}$  *plus* of Fahrenheit, from  $2^{\circ}$  *minus*, with the wind blowing fresh from *north-east*, would seem to indicate that the winter of this region is modified by the warm air from the open water of Barrow's Strait. This sudden change was far from pleasant to the crew; and the old hands warned the novices against "being fools enough to pull their clothes off on account of such a bit of sunshine; for, perhaps, in an hour's time *Zero* would be about again."

On the 21st October, 1850, M'Clure started for Barrow's Strait, with a sledge manned with six men; but it

broke down before they had proceeded far, and they had to send to the ship for another. It did not reach them till the next day. After some difficulty in crossing ridges of broken ice, they reached vast fields of smooth ice of the present season's formation; and here a new obstacle awaited them. The autumnal snow had accumulated upon the surface of these young ice-fields, and, weighing them down, caused the sea-water to flow through sufficiently to render the under part of the snow almost as tenacious as clay. The fatigue of hauling two hundred pounds apiece over such a road was excessive. Unfortunately, no water could be had, and the crew suffered much from thirst; for every handful of snow which they thrust into their parched mouths augmented rather than assuaged their sufferings, as it contained more or less of the salts of the sea-water.

On the 24th a cape was seen at what appeared a distance of twelve miles, and every man now dragged with a will, in the hope of reaching that night the end of his journey; but, after seven hours' labor, the cape still retained its original position, and they seemed not a mile nearer to it. M'Clure then saw that he had been much deceived in its apparent distance, owing to the clearness of the atmosphere, and that thirty miles was a nearer estimate than twelve of the probable length of their march. After a night's rest, and another hard day's work, they were still two miles off the cape, when night closed in, obliging them to halt and encamp. Though disappointed in not sighting Barrow's Strait on the 25th, they were all much cheered by the multiplying proofs around them of its close proximity. Away to the north-east they already saw that wonderful oceanic ice described by Sir Edward Parry in his voyage to Melville Island, in 1819. The latitude was now  $73^{\circ} 25' N$ .

The morning of the 26th October, 1850, was fine and



cloudless. It was with no ordinary feelings of joy and gratitude that M'Clure and his party started before sun rise to obtain from the adjacent hill a view of that sea which connected their discoveries with those of Sir Edward Parry. Ascending a hill six hundred feet above the sea-level, they patiently awaited the increase of light to reveal *the long-sought-for north-west passage from the Atlantic to the Pacific Ocean.*

As the sun rose, the panorama slowly unveiled itself. First the land called after Prince Albert showed out on an easterly bearing ; and, from a point since named after Sir Robert Peel, it evidently turned away to the east, and formed the northern entrance of the channel upon that side.

The coast of Banks's Land terminated about twelve miles further on than where the party stood ; and thence it turned away to the north-west, forming the northern coast of that land, the loom of which had been so correctly reported by Parry more than thirty years before. Away to the north, and across the entrance of Prince of Wales Strait, lay the frozen waters of Barrow's, or, as it is now called, Melville Strait ; and, raised as they were at an altitude of six hundred feet above its level, the eye-sight embraced a distance which precluded the possibility of any land lying in that direction between them and Melville Island.

The north-west passage was discovered ! All doubt as to the water communication between the two great oceans was removed ; and it now alone remained for M'Clure, his officers and men, to perfect the work by traversing the few thousand miles of known ground between them and their homes.

The position of Mount Observation, from which the important discovery had been made, was ascertained to be in latitude 73° 30' 39" N., longitude 114° 29' W

The travellers encamped that night on Cape Lord John Russell, and cheered lustily as they reached the shores of Barrow's Strait. A mimic bonfire, of a broken sledge and dwarf willow, was lighted by the seamen in celebration of the event.

The question of a north-west passage was now placed beyond all doubt. From the point in Barrow's Strait upon which they were looking — a point opposite to Cape Hay, in Melville Island — Parry had sailed into Baffin's Bay and home. The existence, therefore, of a water communication round the north coast of America was finally demonstrated. They had not found any trace of Franklin ; but they had done the next best thing, and enough for M'Clure's fame.

The rapid fall of temperature now warned M'Clure that he should return without delay to the ship. From Point Lord John Russell, the coast of Banks's Land was seen to trend away to the westward, and increase in boldness of outline and altitude. Much vegetation, for this latitude, was observed, and numerous traces of animals, such as the deer, hare, and ptarmigan, as well as of the fox and wolf ; but no animal was seen. A large cairn was constructed, a due record of the visit of the party placed therein, and then, in the teeth of a south-east gale, they commenced their return to the Investigator.

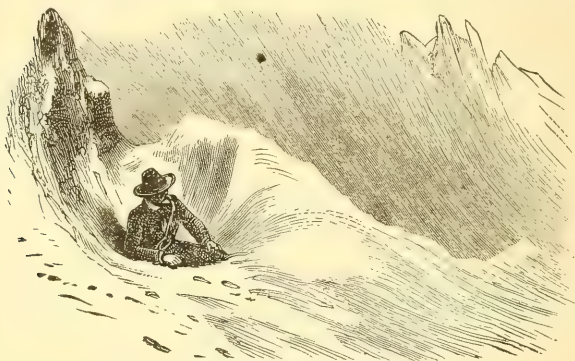
M'Clure came near perishing in trying to get back. On the 30th of October, at two P. M., having seen the Princess Royal Isles, and knowing the position of the ship from them, he left his sledge, with the intention of pushing for the ship, and having a warm meal ready for his men on their arrival. When still six miles from the ship the night overtook him ; and with it came a dense mist, accompanied with snow-drift, which rolled down the strait, and obscured every object. Unable to see

his road, but endeavoring to preserve a course by the wind, M'Clure continued to hasten on, until repeated and heavy falls amongst the broken ice warned him to desist, or incur the additional peril of broken limbs.

"I now," he says, "climbed on a mass of squeezed-up ice, in the hope of seeing my party, should they pass near, or of attracting the attention of some one on board the vessel by firing my fowling-piece. Unfortunately, I had no other ammunition than what it was loaded with ; for I had fancied, when I left the sledge, that the two charges in the gun would be all I should be likely to require. After waiting for an hour patiently, I was rejoiced to see through the mist the glare of a blue light, evidently burnt in the direction in which I had left the sledge. I immediately fired to denote my position ; but my fire was unobserved, and, both barrels being discharged, I was unable to repeat the signal. My only hope now rested upon the ship's answering ; but nothing was to be seen ; and, although I once more saw, at a greater distance, the glare of another blue light from the sledge, there seemed no probability of my having any other shelter for the night than what the floe afforded. Two hours elapsed ; I endeavored to see the face of my pocket-compass by the light of a solitary lucifer match, which happened to be in my pocket ; but in this hope I was cruelly disappointed, for it fizzed and went out, leaving me in total darkness.

"It was now half-past eight ; there were eleven hours of night before me, a temperature  $15^{\circ}$  below zero, bears prowling about, and I with an unloaded gun in my hands. The sledge-party might, however, reach the ship, and, finding I had not arrived, search would be made, and help be sent ; so I walked to and fro upon my hummock until, I suppose, it must have been eleven o'clock, when that hope fled likewise. Descending

from the top of the slab of ice upon which I had clambered, I found under its lee a famous bed of soft, dry snow ; and, thoroughly tired out, I threw myself upon it



RESTING IN THE SNOW.

As I slept for perhaps three hours, when, upon opening my eyes, I fancied I saw the flash of a rocket. Jumping upon my feet, I found that the mist had cleared off and that the stars and aurora borealis were shining in all the splendor of an Arctic night. Although unable to see the islands or the ship, I wandered about the ice in different directions until daylight, when, to my great mortification, I found I had passed the ship fully the distance of four miles."

Retracing his steps, M'Clure reached the Investigator on the 31st October, very tired, but otherwise none the worse for his rough and dangerous exposure to a winter's night in 73° north latitude. A few hours afterwards the sledge arrived, and great was the rejoicing on board at the news confirming the discovery of a north-west passage.

During the absence of the captain and his party, the officers of the Investigator had not been idle. Upon the adjacent shores of Prince of Wales Strait they

succeeded in killing a fine herd of musk-oxen, consisting of three bulls, a cow, and a calf, and yielding a supply of twelve hundred and ninety-six pounds of solid meat.

During the first fortnight in December the temperature of the external air ranged from  $23^{\circ}$  to  $37^{\circ}$  below zero, whilst between decks from  $+40^{\circ}$  to  $+50^{\circ}$  was the average. From the 9th January, 1851, to the 16th, was the coldest period on board the *Investigator* — the thermometer showing  $40^{\circ}$  to  $50^{\circ}$  below zero.

Early one dark and icy morning in January, a man named John Eames was walking out upon the floe, when he saw a small herd of reindeer trot by. "It is pretty evident," says M'Clure, "that, during the whole winter, animals may be found in these straits, and that the want of sufficient light alone prevents our larder being stored with fresh food." "Subsequent observation," says Commander Osborne, "has completely overthrown the idea that the reindeer, musk-ox, or other animals inhabiting the archipelago of islands north of America, migrate southward to avoid an Arctic winter. Throughout Banks's Land, Melville Island, Bathurst, and Cornwallis Land, there have been found indubitable proofs of the reindeer, bear, musk-ox, marmot, wolf, hare, and ptarmigan, — in short, all the Fauna of these climes, — wintering in the latitudes in which they are found during the summer." A raven, which had haunted the ship during the period of cold and darkness, left it before the sun reappeared, and his departure was sensibly felt by every one on board.

Early in March, 1851, a whale-boat was carried on sledges, with much labor, to the Princess Royal Island and a dépôt established of three months' victualling for the entire crew. In April three sledges were laden with provisions for six weeks, and, with six men to each sledge, were sent on different courses. One sledge,



commanded by Lieut. Haswell, was directed to proceed to the south-east, following the coast of Prince Albert's Land, toward the land seen north of Dolphin and Union Strait, and named by its discoverer Wollaston Land ; another sledge, under Lieut. Cresswell, was to follow the coast of Banks's Land to the north-west ; whilst the remaining party, with Mr. Wynniatt, was charged with the duty of examining the coast of Albert Land to the north-east, toward Cape Walker. On the 18th April the several parties, with their sledges, left the ship to search for traces of Sir John Franklin and his men.

They returned, after intervals of from three to seven weeks, but without having found any traces of the missing navigators, or gained any contributions of moment for geographical science. The most important incident seems to have been Lieut. Haswell's encounter with some Esquimaux, who said they had never before cast eyes on a white man. Copper of the purest description seemed to be plentiful with them, for all their implements were of that metal ; their arrows were tipped with it, and some of the sailors saw a quantity of it in a rough state in one of the tents. M'Clure afterwards had some friendly interviews with these people, in whose decaying prospects he became quite interested.

As spring advanced, signs of a change began to multiply. First came a seal at the hole in the floe kept open near the ship in case of fire ; then a large polar bear ; and, lastly, hares and ptarmigan. Among the startling narratives of Arctic escapes, few exceed that of Whitfield, one of the hunters, who lost his way in a snow-drift, and was found within a yard of the tent, stiff and rigid as a corpse, his head thrown back, his eyes fixed, his mouth open and filled with snow, his gun slung over his shoulder, and his body being fast buried in a snow-wreath. When happily brought to

himself, he related that whilst struggling with the snow-storm he felt a chill, and then a fit came on, during which he imagined people came close to him ; he had partially recovered, and, discovering a track, had nearly reached the tent-door, when he was overtaken by another fit, and had sunk down, a yard from the tent-door, in the attitude of supplication in which he was found. Had not one of the hunters looked out of the door by chance, he must have been frozen to death in that position, within a yard of a place of refuge !

There was great joy on board the Investigator from the 10th to the 14th of July, 1851. The floe had commenced breaking up, and on the 17th the good ship cast off, — only, however, to be caught in the pack-ice, and once more drifted with the crushing floes against the cliffs of Princess Royal Island. Finally she drifted to the tantalizing distance of twenty-five miles from the waters of Barrow's Strait. Further than that, no effort could advance the ship ; the young ice at nights had already begun to form again, the sun once more set at night, the pack-ice closed up the exit, and M'Clure was obliged to give the passage up as a hopeless thing, and to retrace his steps, in order that, by going round by the south of Banks's Land, he might try and reach Melville Island from that direction.

It was a truly grievous position to be placed in, to be within some thirty miles of a clear sea, which, had they once been able to pass into, they could have reached England the same summer, — and to have to turn back with the prospect of another winter in the polar regions. But the ice was as inexorable as if the Isthmus of Panama had stood between them and the Atlantic ; and there was no help for it. At first matters went on well, in their southerly progress ; not a particle of ice was met with. Floes, hummocks, and the huge piles of ice that fringed the coast, had alike disappeared.

On the 24th of July they had nearly reached Point Armstrong, upon which the ice was resting. Here their course was checked. There was much drift-wood on the beach, of large dimensions, mostly American pine. The cutter was consequently despatched for a load, and some of the pieces appeared so fresh that the carpenter was of opinion that two years was the extreme of their quitting the forest. "The wind, veering to the westward during the night," says M'Clure, "set large bodies of ice into the water we occupied, which was rapidly filling. To prevent being forced on shore, we were obliged, at eight A. M. of the 25th, to run into the pack, where we drifted, according to the tide, about a mile and a half from the beach; but, during the twenty-four hours, made about two miles and a half to the north-east, from which, when taken with the quantity of drift-wood that is thickly strewed along the beach, I am of opinion that on this side of the strait there is a slight current to the north-east, while upon the opposite one it sets to the southward, upon which there is scarcely any wood, and our progress, while similarly situated, was in a southern direction. We continued drifting in the pack, without meeting any obstruction, until ten A. M. of the 1st of August, when a sudden and most unexpected motion of the ice swept us with much velocity to the north-east, toward a low point, off which were several shoals, having many heavy pieces of grounded ice upon them, toward which we were directly setting, decreasing the soundings from twenty-four to nine and a half fathoms. Destruction was apparently not far distant, when, most opportunely, the ice eased a little, and, a fresh wind coming from the land, sail was immediately made, which, assisted by warps, enabled the ship to be forced ahead about two hundred yards, which shot us clear of the ice and the point into sixteen

and a half fathoms, in which water we rounded the shoals; the ice then again closed, and the ship became fixed until the 14th of August, when the fog, which since the previous day had been very dense, cleared, and disclosed open water about half a mile from the vessel, with the ice loose about her."

The difficulty of clearing away large masses of ice was, to some extent, obviated by blasting. "Previously to quitting the floe," says M'Clure, "I was desirous of trying what effect blasting would have upon such a mass. A jar containing thirty-six pounds of powder was let down twelve feet into the water near the centre; the average thickness was eleven feet, and its diameter four hundred yards. The result was most satisfactory, rending it in every direction, so that with ease we could effect a passage through any part of it."

Cape Kellett was rounded with some little difficulty, the ship passing between the edge of grounded ice and the coast. The land was now so low that the hand lead-line became for a while their best guide; the soundings happily were regular, and, aided by it and a fair wind, they advanced apace to the northward. Throughout the 19th of August, 1851, the ship sometimes ran as much as seven knots per hour, the width of the lane of water in which they were sailing varying from three to five miles. Noon that day found them in  $73^{\circ} 55'$  north latitude, and  $123^{\circ} 52' 30''$  west longitude; and already did M'Clure count upon extending his voyage to the north of Melville Island, and then striking for some strait or sound leading into Baffin's Bay.

That night, however, a sudden and remarkable change took place. They had just crossed Burnet Bay, within Norway and Robilliard Island, when the coast suddenly became as abrupt and precipitous as a wall; the water was very deep, — sixty fathoms by the lead-line within

four hundred yards of the face of the cliffs, and fifteen fathoms water when actually touching them. The lane of water had diminished to two hundred yards in width where broadest; and even that space was much hampered by loose pieces of ice aground or adrift. In some places the channel was so narrow that the quarter-boats had to be topped up to prevent their touching the cliffs upon the one hand, or the lofty ice upon the other; and so perfectly were they running the gauntlet, that on many occasions the ship could not "round to," for want of space.

Their position was full of peril; yet they could but push on, for retreat was now as dangerous as progress. The pack was of the same fearful description as one they had fallen in with in the offing of the Mackenzie River, during the previous autumn; it drew forty and fifty feet of water, and rose in rolling hills upon the surface, some of them a hundred feet from base to summit. Any attempt to force the frail ship against such ice was of course mere folly; all they could do was to watch for every opening, trust in the mercy of God, and push ahead in the execution of their duty. If the ice at such a time had set in with its vast force against the sheer cliff, nothing, they all felt, could have saved them.

Enough has been said to give a correct idea of the peril incurred at this stage of the voyage, without entering into minute details of the hair-breadth escapes hourly taking place; but one instance may be given as a sample of the rest. After the 20th of August the Investigator lay helplessly fixed off the north-west of Banks's Land; the wind had pressed in the ice, and for a while all hopes of further progress were at an end. On the 29th of August, however, a sudden move took place, and a moving floe struck a huge mass to which



the ship had been secured, and, to the horror of those on board, such was the enormous power exerted that the mass slowly reared itself on its edge close to the ship's bows, until the upper part was higher than the fore-yard; and every moment appeared likely to be the Investigator's last, for the ice had but to topple over to sink her and her crew under its weight. At the critical moment there was a shout of joy; for the mass, after oscillating fearfully, broke up, rolled back in its original position, and they were saved.

Hardly, however, was this danger past than a fresh one threatened; for the berg to which the ship was secured was impelled forward by the whole weight of the driving pack toward a low point of land, on which with frightful pressure the great floes were breaking up, and piling themselves tier upon tier. The Investigator had no power of escape; but every hawser was put in requisition, and hands stationed by them. An attempt to blow up a grounded berg, upon which the ship was driving, only partially succeeded; the nip came on, the poor ship groaned, and every plank and timber quivered from stem to stern, in this trial of strength between her and the ice. "Our fate seemed sealed," says M'Clure; and he made up his mind to let go all hawsers. The order was given, and with it the wreck of the Investigator seemed certain: all the leader hoped for was — to use his own words — "that we might have the ship thrown up sufficiently to serve as an asylum for the winter." If she should sink between the two contending bergs, the destruction of every soul was inevitable.

But, at the very moment when the order to "let go all hawsers" was given, and even before it could be obeyed, a merciful Providence caused the berg, which most threatened, to break up, and the Investigator was

once more saved ; though still so tightly was she beset, that there was not room to drop a lead-line down round the vessel, and the copper upon her bottom was hanging in shreds, or rolled up like brown paper. By midnight the ice was stationary, and everything quiet.

They were now upon the north-west extreme of Banks's Land, and here officers and men rambled into the interior, which they did not find so sterile as the view from the sea had led them to expect. Traces of musk-oxen and deer abounded, and both were seen ; but perhaps the most extraordinary discovery of all was a great accumulation of fossil trees, as well as fragments not fossilized, lying over the whole extent of the land, from an elevation of three hundred feet above the sea to its immediate level. Writing on the 27th of August, M'Clure says : " I walked to-day a short distance into the interior ; the snow that had fallen last night lay unthawed upon the high grounds, rendering the prospect most cheerless. The hills are very remarkable, many of them peaked, and standing isolated from each other by precipitous gorges. The summits of these hills are about three hundred feet high, and nothing can be more wildly picturesque than the gorges which lie between them. From the summit of these singularly-formed hills to their base, abundance of wood is to be found ; and in many places layers of trees are visible, some protruding twelve or fourteen feet, and so firm that several people may jump on them without their breaking : the largest trunk yet found measured one foot seven inches in diameter."

Again, on September 5th, some miles from the hills just alluded to, M'Clure says : " I entered a ravine some miles inland, and found the north side of it, for a depth of forty feet from the surface, composed of one mass of wood similar to what I had before seen. The

whole depth of the ravine was about two hundred feet. The ground around the wood or trees was formed of sand and shingle ; some of the wood was petrified, the remainder very rotten, and worthless even for burning."

At a subsequent period, Lieutenant Meham met with a similar kind of fossil forest in Prince Patrick Island, nearly one hundred and twenty miles further north.

This phenomenon gives rise to speculation as to some period in the world's history when the absence of ice and a milder climate allowed forest-trees to grow in a region where now the ground willow and dwarf birch have to struggle for existence.

On the 1st of September, 1851, winter appeared to have overtaken the Investigator in her forlorn position ; but on the 18th the wind veered, and the ice went off from the coast, carrying the ship with it, drifting her to the northward. On the 19th, having got free of the ice which clung to her sides, the ship got into a lane of water stretching eastward ; and, on the 22d, rounding Cape Austin, fairly entered into Melville Strait. At length, on the 24th, they found themselves in a large bay at the western extremity of Banks's Land, and, seeing that it was impossible to round its north-eastern horn, M'Clure made up his mind to winter where he was ; and, in token of his gratitude for his many providential escapes, he appropriately called the place "The Bay of Mercy." That night they were firmly frozen in.

It was now certain that they would have to spend another winter in the ice. With slight exceptions, the arrangements made were much the same as those of the previous winter. The allowance of food was reduced, to meet the contingency of an escape from the ice not being effected the following year ; but this inconvenience was, to some extent, obviated by its being discovered

that the land teemed with deer and hares. "As there appeared much game in the vicinity," writes Captain M'Clure, "and the weather continued mild, shooting parties were established in different directions between the 9th and 23d of October; so that, with what was killed from the ship, our supply of fresh provisions at the commencement of the winter consisted of nine deer, fifty-three hares, and forty-four ptarmigan, all in fine condition, the former having from two to three inches of fat."

The herds of deer and troops of hares that congregated on the broad plains of dwarf willow, reindeer-moss, and coarse grasses in the interior, are described as perfectly marvellous. Wolves and foxes also abounded, and, as cold and darkness increased, the former, pressed by hunger, used to haunt the ship to a disagreeable extent; and the sad prolonged howl of these gaunt creatures in the long nights added, if possible, to the dismal character of the scene. Two ravens also established themselves as friends of the family in Mercy Bay, and used to trick the ship's dog out of his meals by enticing him away, flying a few yards at a time, he running at them till they had got him some distance away, when they would make a direct flight back, and have done good execution before the mortified dog detected the imposition practised upon him, and rushed back again.

"In consequence of our favored position," says M'Clure, "the crew were enabled to ramble over the hills almost daily in quest of game, and their exertions happily supplied a fresh meal of venison three times a fortnight, with the exception of about three weeks in January, when it was too dark for shooting. The small game, such as ptarmigan and hares, being scarce, were allowed to be retained by the sportsmen as private property. This healthy and exhilarating exercise kept

us all well and in excellent spirits during another tedious winter, so that on the 1st of April we had upwards of a thousand pounds of venison hanging at the yard-arms."

Musk-oxen were very numerous. They were found to be very ferocious, and great danger sometimes attended the attacks. They were easily approached, but when wounded they ran headlong at their assailant. On one occasion, Sergeant Woon, of the marines, while in pursuit of a wounded deer, unexpectedly met a couple of musk-bulls, which he succeeded in wounding. Having expended his shot, as one of the wounded and infuriated monsters rushed towards him, he fired his "worm" when at a few yards, but without much effect. The animal continued his advances, evidently, however, weak from loss of blood, till he had reached within six feet, when he put his head to the ground, as if for a final rush. As his last resource, the sergeant fired his iron ramrod, which, entering behind the animal's left shoulder, passed through the heart and out at the right flank, dropping him lifeless.

December found the crew of the Investigator passing their time cheerfully in their far-distant home in Mercy Bay. The month came in with a succession of those tremendous snow-storms, which are, perhaps, the most frightful visitations of the polar regions. But, after the new year (1852) began, the weather was fine, with a keen and steady cold of from seventy to eighty degrees below the freezing-point of water — a temperature which severely tests the vital energies of man. Yet, what with cheerfulness, exercise, and regular habits, the crew were in good health.

One of the hunting parties had well-nigh proved fatal to a colored man serving on board the ship. He had wounded a deer, and chased it till a fog came on, and



he lost his way. It was in January, and the weather was bitterly cold; the poor fellow began to fancy himself frozen to death, and lost his wits entirely. While in this state, Sergeant Woon met him, and offered to lead him to the ship. The negro, beside himself with terror, could not be made to understand anything, and stood crying and shuddering till he fell down in a fit. The sergeant waited till he was restored, and then either carried him on his back or rolled him down hills and hummocks for ten long hours, till he got him within a mile of the ship. But the sergeant was by this time exhausted. He exerted all his powers of eloquence upon the negro to induce him to walk. The poor creature only begged to be "let alone to die." Finding all his arguments unavailing, the sergeant laid him in a bed of deep snow, and, with all his remaining strength, ran alone to the ship. He procured assistance directly, and, returning to the place where he had left the negro, found him with his arms stiff and raised above his head, his eyes open, and his mouth so firmly frozen that it required great force to open it to pour down restoratives. He was alive, however, and eventually recovered, though his hands, feet, and face, were much frost-bitten. This case, and a similar one already related, illustrate, in a striking manner, not only the effect of intense cold on the body and mind, but also how much the safety of the former depends on the exercise of the latter.

On the 5th of February the sun was seen above the horizon, and the sportsmen became more successful, scarcely a day passing without a deer or hare being shot; and keen must have been the hunger of those sportsmen, for more than one of them, when, after a long and weary walk, he shot a deer or hare, refreshed himself with a draught of the animal's hot blood, or by

eating a mouthful or two of the raw meat. The wolves had also become exceedingly bold, and tales are told of the sportsman pulling at one end of a slain deer, and the wolves at the other !

On the 11th of April, 1852, a sledge excursion was made to Winter Harbor, Melville Island, — the old winter quarters of Sir Edward Parry, — and notice found of Lieutenant M'Clintock's having been there from the west, the previous summer. M'Clure here deposited a notice of his own visit, under the same cairn that had protected the notice left by his predecessor.

It is remarkable that, shortly after M'Clure's visit to this spot, a sledge-party from the *Enterprise*, which had wintered at the south end of Prince of Wales Strait, after having been up to near its northern extremity, and having been foiled, like the *Investigator*, in getting into Melville Strait, actually visited the same spot, without either party knowing that the other was so close, so great is the difficulty of meeting one another in regions like those of the Arctic archipelago.

Although the sportsmen continued to meet with great success, and at one period no less than twenty head of deer were hanging up round the ship, yielding a thousand pounds of meat, scurvy began to show itself, and to make marked progress among the crew. On the 1st of July there were six men in their beds, and sixteen had evident symptoms of debility, with incipient scurvy. On the 16th open water was seen in the straits, but the ice in the bay prevented their getting to it, and on the 24th the *lead of water had closed* ! It became too obvious that the winter was again setting in. All hope of deliverance for another season was cut off !

“ On the 20th of August, 1852,” says M'Clure, “ the temperature fell to 27°, when the entire bay was completely frozen over ; and, on the 27th, the temperature

fell to 19°, so that the whole aspect was cheerless in the extreme. The young ice was two and a half inches thick, so that the whole bay might be safely perambulated. Indeed, the summer was fairly gone, for the uplands were all snow-covered, the wild-fowl all departed, and the flowers, which gave cheerful variety to this bleak land, were all withered. The very season might be considered as one long, sunless day, as since the latter part of May the great luminary had been scarcely visible, or his influence scarcely felt upon those icy masses which block Barrow's Strait entirely across; nor do I imagine that the Polar Sea had broken up that season, as not a drop of water had been seen in that direction.

“During July, and the early part of August, the crew were daily employed gathering sorrel, of which there was a great quantity upon the hills in this vicinity. Eaten as a salad, with vinegar, or boiled, when it resembled spinach, it was found a most admirable antiscorbutic, and a great benefit to all, being exceedingly relished; but this hardy and miserable herbage could not withstand the rigorous summer beyond the 15th of the month.

“For several days the ice had been perfectly stationary, and no water visible in any direction, that along the cliffs of Banks's Land being frozen; so that I felt assured that the winter had fairly set in, and all hopes of any release this year were totally annihilated, the young ice being five inches thick. Having previously determined what course I should adopt under circumstances thus unfavorable, upon the 8th of September I announced my intentions to the crew of sending half of them to England next April, with all the officers not in charge of stores, *viâ* Baffin's Bay (taking the boat from Cape Spencer) and the Mackenzie, detaining the re-

mainder with the hope of extricating the vessel during the summer of 1853 ; or, failing that, to proceed with sledges in 1854 by Port Leopold, our provisions admitting of no other arrangement.

“ Although we had already been twelve months upon two thirds allowance, it was necessary to make preparations for meeting eighteen months more ; a very severe deprivation and constitutional test, but one which the service we were employed upon called for, the vessel being as sound as the day she entered the ice ; it would therefore, be discreditable to desert her in 1853, when a favorable season would run her through the straits and admit of reaching England in safety, where the successful achievement of the long-sought-for and almost hopeless discovery of the north-west passage would be received with a satisfaction that would amply compensate for the sacrifices made and hardships endured in its most trying and tedious accomplishment. This statement was well received, and its execution will, I hope, be carried out without difficulty.”

It is due to Captain M’Clure to reproduce one passage in the dispatch which he had prepared to send home with the land parties he was about to forward in the spring of 1853.

“ Should any of her majesty’s ships be sent for our relief, and we have quitted Port Leopold, a notice, containing information of our route, will be left on the door of the house at Whalers’ Point, or on some conspicuous position. If, however, no intimation should be found of our having been there, it may at once be surmised that some fatal catastrophe has happened, either from our being carried into the Polar Sea, or smashed in Barrow’s Strait, and no survivors left. If such be the case, — which, however, I will not anticipate, — it will then be quite unnecessary to penetrate further to the west-

ward for our relief, as, by the period that any vessel could reach that port, we must, from want of provisions, all have perished. In such a case, I would submit that the officers may be directed to return, and by no means incur the danger of losing other lives in quest of those who will then be no more."

The ship was banked up with snow and housed over on the 18th of November, and every preparation made for spending a third winter in this region of icy desolation. The spirits of the crew, however, did not flag. Resort was again had to the hunting expeditions which had occupied and cheered them so much in previous years, and their larder was kept well stocked with provisions. The wolves so harassed the deer, that the latter poor creatures actually fled to the ship for protection.

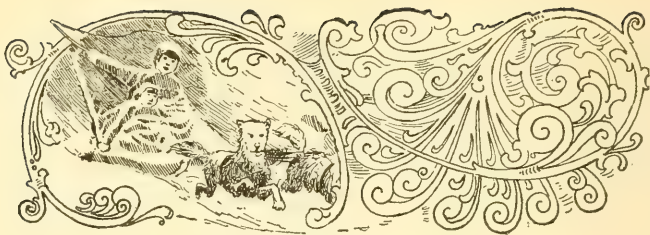
"The hares and ptarmigan," writes M'Clure, "have descended from the high ground to the sea ridges, so that a supply of game has been kept up during the winter, which has enabled a fresh meal to be issued twice weekly, and the usual Christmas festivities to pass off with the greatest cheerfulness. As it was to be our last, the crew were determined to make it memorable, and their exertions were completely successful; each mess was gayly illuminated and decorated with original paintings by our lower-deck artists, exhibiting the ship in her perilous positions during the transit of the Polar Sea, and divers other subjects; but the grand features of the day were the enormous plum-puddings (some weighing twenty-six pounds), haunches of venison, hares roasted, and soup made of the same, with ptarmigan and sea pies. Such dainties in such profusion I should imagine never before graced a ship's lower-deck; any stranger, to have witnessed this scene, could but faintly imagine that he saw a crew which had passed



upwards of two years in these dreary regions, and three entirely upon their own resources, enjoying such excellent health — so joyful, so happy : indeed, such a mirthful assemblage, under any circumstances, would be most gratifying to any officer ; but, in this lonely situation, I could not but feel deeply impressed, as I contemplated the gay and plenteous sight, with the many and great mercies which a kind and beneficent Providence had extended toward us, to whom alone is due the heartfelt praises and thanksgivings of all for the great blessings which we have hitherto experienced in positions the most desolate which can be conceived."

So another winter passed. The spring again returned, and the season rapidly approached when the crew was to divide, and the travelling parties were to set out on their long and perilous journeys : the one to return home by the way of the Mackenzie River and Canada ; the other to proceed to Cape Spencer (where a boat and provisions had been deposited), and thence by Barrow's Strait to make their way to the nearest inhabited coast. That these journeys would prove long and dangerous in the extreme, could not be doubted ; for the return parties were composed of the most weakly hands, thirty of the healthiest men being retained to stand by the ship with the captain, and brave the rigors of another Arctic winter.

But, while M'Clure and his gallant comrades were thus about to resort to their last desperate expedient for communicating with the civilized world, relief was at hand of which they had little expectation. Providential circumstances interposed to do away with the necessity of committing their forlorn hopes to the snow and ice deserts of the polar regions. These extraordinary circumstances will be narrated in another chapter.



## CHAPTER XVII.

VOYAGE OF THE RESOLUTE AND INTREPID. — ARRIVAL AT DEALY ISLAND. — SLEDGE-PARTIES. — PARRY'S SANDSTONE AGAIN. — NEWS FROM THE INVESTIGATOR. — PIM'S JOURNEY. — MEETING WITH M'CLURE. — RETURN TO THE RESOLUTE. — MORE DEATHS REPORTED. — ABANDONMENT OF THE INVESTIGATOR. — A WEARY SUMMER. — CRESSWELL SENT WITH DISPATCHES. — INCIDENTS IN THE VOYAGE OF THE PHOENIX. — LOSS OF THE BREDALBANE TRANSPORT. — DEATH OF BELLOT. — HIS AMIABLE CHARACTER. — THE PHOENIX AND TALBOT SENT OUT.

A PARENT'S solicitude for his son saved the crew of the Investigator. We must now again take up the story of Sir Edward Belcher's expedition, which we left at Beechey Island on the 15th of August, 1852, just separating into two divisions, — one to proceed north, the other west. It is the westward division with which we have now to do. It was suggested to the British Admiralty by Mr. Cresswell, who had a son with M'Clure, that that part of Belcher's expedition which was destined for Wellington Channel should be directed upon Melville Island, as it was the opinion of General Sabine and Captain Kellett that if Captains Collinson and M'Clure were unable to reach that island with their ships, still they would push in there with their sledges. The senior lord of the Admiralty saw the soundness of Mr. Cresswell's views ; and the Resolute and Intrepid, under Captains Kellett and M'Clintock, were ordered to proceed to Melville Island.

In nearing Assistance Bay, only thirty miles from Beechey Island, at which point Captain Kellett was to leave a dépôt, the Resolute grounded, was left with but

seven feet of water, thrown over on her starboard bilge, and almost lost. At midnight, however, she was got off, leaving sixty feet of her false keel behind.

Kellett forged on in her, leaving dépôts here and there as he proceeded; and at the end of the summer had reached Melville Island, the westernmost point attained by Parry in 1820. Kellett's associate, Capt. M'Clintock, of the *Intrepid*, had commanded the only party which had been here since Parry, having come over with sledges from Austin's squadron, in 1851, as the reader will remember.

The *Resolute* and *Intrepid* came to anchor off Dealy Island, the place selected for their winter quarters; and then Capt. Kellett and his officers, with great spirit, began to prepare for the extended searching parties of the next spring. Officers were already assigned to the proposed lines of search; and in order to extend the searches as much as possible, and to prepare the men for the work when it should come, sledge-parties were sent forward to make advanced dépôts, in the autumn, under the charge of the gentlemen who would have to use them in the spring.

One of these parties — the "South line of Melville Island" party — was under a spirited young officer, Mr. Mecham, who had seen service in the last expedition. He had two sledges, the *Discovery* and the *Fearless*, a dépôt of twenty days' provision to be used in the spring, and enough for twenty-five days' present use. All the sledges had little flags, made by some young lady friends of Sir Edward Belcher's. Mr. Mecham's bore an armed hand and sword on a white ground, with the motto, "*Per mare, per terram, per glaciem.*" Over mud, land, snow, and ice, they carried their burden; and were nearly back, when, on the 12th of October, 1852, Mr. Mecham visited "Parry's Sand-

stone," near Winter Harbor, where he had been bidden to leave a record. He went on in advance of his party, meaning to cut the date, 1852, on the stone. On top of it was a small cairn, built by M'Clintock the year before. Mecham examined this, and, to his surprise, a copper cylinder rolled out. "On opening it," he says, "I drew out a roll folded in a bladder, which, being frozen, broke and crumbled. From its dilapidated appearance, I thought, at the moment, it must be some record of Sir Edward Parry; and, fearing I might damage it, laid it down with the intention of lighting the fire to thaw it. My curiosity, however, overcame my prudence, and, on opening it carefully with my knife, I came to a roll of cartridge-paper with the impression fresh upon the seals. My astonishment may be conceived on finding it contained an account of the proceedings of her majesty's ship Investigator since parting company with the Herald (Capt. Kellett's old ship), in August, 1850, in Behring's Strait: also a chart which disclosed to view not only the long-sought north-west passage, but the completion of the survey of Banks's and Wollaston Lands. I opened and endorsed Commander M'Clintock's dispatch, and found it contained the following additions:

'Opened and copied by his old friend and messmate, upon this date,  
April 28, 1852. ROBERT M'CLURE.

'Party all well, and return to Investigator to-day.'

A great discovery, indeed, to flash across one in a minute! The Investigator had not been heard from for more than two years. Here was news of her not yet six months old! The north-west passage had been dreamed of for three centuries and more. Here was news of its discovery, — news that had been known to M'Clure for two years! M'Clure and M'Clintock were

lieutenants together in the *Enterprise* when she was sent after Sir John Franklin, in 1848, and wintered together in her at Port Leopold. Now, from different hemispheres, they had come so near meeting at this old block of sandstone! Mr. Mechem bade his mate build a new cairn, to put the record of the story in, and hurried on to the *Resolute* with his great news.

It thus became known to Kellett and his companions that the *Investigator* had been frozen up in the Bay of Mercy, only one hundred and seventy miles from their own position. It must have been a sore trial, to all parties, to wait the winter through, and not even get a message across. But, until winter made it too cold and dark to travel, the ice in the strait was so broken up that it was impossible to attempt to traverse it, even with a light boat for the lanes of water. So, the different autumn parties came in, and the officers and men entered on their winter's work and play, to push off the winter days as quickly as they could.

The system of travelling in the fall and spring abridges materially the length of the Arctic winter as Ross, Parry, and Back, used to experience it; and it was only from the 1st of November to the 10th of March that Kellett's party were left to their own resources. Late in October one of the *Resolute's* men died, and in December one of the *Intrepid's*; but, excepting these cases, they had little sickness — for weeks no one on the sick-list; — indeed, Capt. Kellett says that a sufficiency of good provisions, with plenty of work in the open air, will insure good health in the Arctic climate.

As early in the spring as he dared risk a travelling party, namely, on the 10th of March, 1853, he sent what they all called a forlorn hope across to the Bay of Mercy, to find traces of the *Investigator*; for they



scarcely ventured to hope that she was still there. This start was earlier by thirty-five days than the early parties had started on the preceding expedition. But it was every way essential that, if M'Clure had wintered in the Bay of Mercy, the messenger should reach him before he sent off any or all his men, in travelling parties, in the spring. The little forlorn hope consisted of ten men, under the command of Lieut. Pim, an officer who had been with Kellett in the *Herald* on the Pacific side, had spent a winter in the *Plover* up Behring's Strait, and had been one of the last men whom M'Clure and his crew had seen before they sailed into the Arctic Ocean, to discover, as it proved, the north-west passage.

Lieut. Pim started with a sledge and seven men under his own immediate command, and a dog-sledge with two men under Dr. Domville, the surgeon, who was to bring back the earliest news to Captain Kellett. There was also a relief-sledge to accompany the party a portion of the way. Pim's orders were to go at once to the Bay of Mercy in search of the Investigator; if she was gone, to follow any traces of her, and if possible to communicate with her or her consort, the *Enterprise*.

One of the sledges broke down soon after the party started, and they had to send back for another. Bad weather came on, and compelled them to encamp on the ice. "Fortunately," says the lieutenant, "the temperature arose from fifty-one degrees below zero to thirty six below, and there remained;" while the drifts accumulated to such a degree around the tents, that within them the thermometer was only twenty below, and when they cooked rose to zero. There they lay three days, smoking and sleeping in their bags. On the fourth day a new sledge arrived from the ship, and they got under way again. Thus far they were running

SLEDGING ACROSS THE HIMNOCKS.





along the shore; but they soon sent back the relief-party which had brought the new sledge, and a few days after set out to cross a strait, some thirty miles wide, which, when it is open (as no man has yet seen it), is one avenue of the north-west passage discovered by these expeditions.

They got on slowly, and with great difficulty. Only three miles the first day, four miles the second day, two and a half the third, and half a mile the fourth; this was all they gained by most laborious hauling over the broken ice, dragging one sledge at a time, and sometimes carrying forward the stores separately, and going back for the sledges. Two days more gave them another eight miles, but on the seventh day of their passage across this narrow strait the great sledge slipped off a smooth hummock, broke one runner, and brought the party to a stand-still.

Having now nothing but the little dog-sledge to carry them on, — with the ship a hundred miles off and the thermometer at eighteen below zero, — the two officers had some discussion as to their future proceedings. Dr. Domville, whose sledge, the *James Fitzjames*, was still sound, thought they had best leave the stores and go back; but Lieut. Pim, who had the chief command, thought otherwise; so he took the *James Fitzjames*, with the two men belonging to it, and pushed on, leaving the doctor on the floe, but giving him directions to take the broken sledge back to land, and there wait for him to return.

On went the lieutenant and his two men, over ice, over hummock, — feeding their dogs on preserved meats for want of game, — until they left the strait behind, and came to Banks's Land. Still they found no game. Pim was taken sick, and for a whole day was obliged to remain shut up in the tent. A few hours' sleep re

freshed him, and the party started on again. At last, after many weary days' travel, they got upon the Bay of Mercy. No ship was in sight. Right across the bay went the lieutenant to search for records, when, at two o'clock p. m., one of the men saw something black in the distance. Pim looked through his glass, and made it out to be a ship. Forthwith the whole party proceeded as fast as possible toward it. Pim, hurrying along, soon got in advance of the sledge, and walked on alone.

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On the 6th of April, 1853, the little crew of the Investigator was in low spirits: one of their comrades had just poisoned himself. All hands were preparing for the separation which was to take place in the following week, and were looking forward with gloomy forebodings to their slender chances of escape, when an event occurred, which we give in M'Clure's own words:

"While walking near the ship, in conversation with the first lieutenant upon the subject of digging a grave for the man who died yesterday, and discussing how we could cut a grave in the ground whilst it was so hardly frozen (a subject naturally sad and depressing), we perceived a figure walking rapidly towards us from the rough ice at the entrance of the bay. From his pace and gestures we both naturally supposed, at first, that he was some one of our party pursued by a bear; but, as we approached him, doubts arose as to who it could be. He was certainly unlike any of our men; but, recollecting that it was possible some one might be trying a new travelling-dress preparatory to the departure of our sledges, and certain that no one else was near, we continued to advance.

"When within about two hundred yards of us, the strange figure threw up his arms, and made gesticula-



tions resembling those used by Esquimaux, besides shouting at the top of his voice words which, from the wind and intense excitement of the moment, sounded like a wil' screech : and this brought us both fairly to a stand-still. The stranger came quietly on, and we saw that his face was as black\* as ebony ; and really, at the moment, we might be pardoned for wondering whether he was a denizen of this or the other world ; as it was, we gallantly stood our ground, and, had the skies fallen upon us, we could hardly have been more astonished than when the dark-faced stranger called out, ' I'm Lieutenant Pim, late of the Herald, and now in the Resolute. Captain Kellett is in her, at Dealy Island.'

" To rush at and seize him by the hand was the first impulse, for the heart was too full for the tongue to speak. The announcement of relief being close at hand, when none was supposed to be even within the Arctic Circle, was too sudden, unexpected, and joyous, for our minds to comprehend it at once. The news flew with lightning rapidity ; the ship was all in commotion ; the sick, forgetful of their maladies, leaped from their hammocks ; the artificers dropped their tools, and the lower deck was cleared of men ; for they all rushed for the hatchway, to be assured that a stranger was actually among them, and that his tale was true. Despondency fled the ship, and Lieut. Pim received a welcome — pure, hearty, and grateful — that he will surely remember and cherish to the end of his days "

On the 8th of April, Pim and his men, accompanied by M'Clure with a sledge-party, set out on their return. Dr. Domville, who had improved his time by mending the broken sledge and killing five musk-oxen, joined them on the way ; and on the 19th they all arrived at the quarters of the Resolute and Intrepid. Capt. Kellett

\* Rendered black by the lamp-smoke in his tent.

was at first inclined to favor M'Clure's plan of endeavoring to save the Investigator; but on the 2d May Lieut. Cresswell arrived from her with the report of two more deaths. Then it was arranged that Dr. Domville should go back with M'Clure and hold a survey on the health of the crew; that those who were unfitted to stand another winter should be ordered home, and that the healthy should have their option of going or remaining. The result was that only four men were willing to remain, though the officers all gallantly volunteered to stand by the vessel. Boats, stores, &c., were accordingly landed to form a dépôt for the use of Collinson, Franklin, or any other person who might happen along, and on the 3d June, 1853, the colors were hoisted to the mast-head, and officers and crew bade a last farewell to the Investigator. They arrived at Dealy Island on the 17th, and were accommodated on board the Resolute and Intrepid.

Kellett's plan was to send them down to Beechey Island in the Intrepid at the first breaking up of the ice. More than half his crews were out on searching expeditions when the Investigator's men arrived. Parties under M'Clintock, Meham, and Hamilton, were searching every foot of land to the north and north-west of Melville Island. They all came in at last, having found no traces of Sir John Franklin. Finding that nothing more could be done in a north-west direction, Kellett determined to take both vessels to Beechey Island as soon as the ice would admit. All his arrangements were made for starting at any moment. He built a store-house on the island, stocked it well with provisions, and left in it this record:

"This is a house which I have named the 'Sailor's Home,' under the especial patronage of my Lords Commissioners of the Admiralty.

"Here royal sailors and marines are fed, clothed, and receive double pay for inhabiting it."

All the other usual expedients were resorted to to while away the time; but after the excitement of the searching parties was over the summer passed drearily. The ice showed no sign of breaking up. Mr. Roche, mate of the *Resolute*, who had been sent down to the North Star for provisions, returned unexpectedly, having been to Beechey Island and back, a distance of six hundred miles, in six weeks. Capt. Richards arrived from Northumberland Sound, bringing news from Belcher's division. Little else occurred to break the monotony.

Meanwhile Lieut. Cresswell had been sent down to Beechey Island with dispatches for the Admiralty. There he had the good fortune to be taken on board of the *Phoenix*, in which, as we have seen, he returned to England, bringing the first news of the safety of the *Investigator*, and the discovery of the north-west passage.

Before we proceed further with the adventures of the companions whom he left at Dealy Island, there are some other matters of interest connected with this voyage of the *Phoenix*, which it will be well to relate in this place. One of these is the loss of the *Bredalbane* transport, by one of those terrible "nips" which are so often encountered in the polar seas. This occurred near Cape Riley, on the 21st August, 1853, and was witnessed by the crew of the *Phoenix*, in which vessel the *Bredalbane's* crew took refuge. It shows how very easily a vessel may be destroyed in the Arctic regions, without a vestige being left behind to tell the tale. We give the incident in the words of Mr. Fowckner, the agent for the ship, who was on board at the time :

"About ten minutes past four the ice passing the ship awoke me, and the door of my cabin, from the pressure, opened. I hurriedly put on my clothes, and, on getting up, found some hands on the ice endeavor-

ing to save the boats, but these were instantly crushed to pieces. I went forward to hail the *Phoenix*, for men to save the boats; and whilst doing so the ropes by which we were secured parted, and a heavy nip took the ship, making her tremble all over, and every timber in her creak. I looked in the main hold, and saw the beams giving way; I hailed those on the ice, and told them of our critical situation. I then rushed to my cabin, and called to those in their beds to save their lives. On reaching the deck, those on the ice called out to me to jump over the side — that the ship was going over. I jumped on the loose ice, and, with difficulty, and the assistance of those on the ice, succeeded in getting on the unbroken part. After being on the ice about five minutes, the timbers in the ship cracking up as matches would in the hand, the nip eased for a short time, and I, with some others, returned to the ship, with the view of saving some of our effects. Captain Inglefield now came running toward the ship. He ordered me to see if the ice was through the ship; and, on looking down in the hold, I found all the beams, &c., falling about in a manner that would have been certain death to me had I ventured down there. It was too evident that the ship could not last many minutes. I then sounded the well, and found five feet in the hold; and whilst in the act of sounding, a heavier nip than before pressed out the starboard-bow, and the ice was forced right into the forecastle. Every one then abandoned the ship, with what few clothes he could save — some with only what they had on. The ship now began to sink fast, and from the time her bowsprit touched the ice until her mast-heads were out of sight it was not above one minute and a half. From the time the first nip took her until her disappearance, it was not more than fifteen minutes.”

But the saddest episode in Arctic history that Inglefield had to report was the death of Lieut. Bellot, the gallant young Frenchman who acted so prominent a part in the voyage of the *Prince Albert*, under Kennedy. Bellot's zeal and enthusiasm had led him again into the regions of ice and snow, under Inglefield. While there, he volunteered to lead a party over the ice, in August, 1853, to Sir Edward Belcher's squadron, which was at that time near Cape Beecher, in Wellington Channel. This party consisted of four men — namely, Harvey, Johnson, Madden, and Hook.

On Friday, the 12th of August, he started, with his little band, from Beechey Island (at which place the *North Star* was lying), in charge of dispatches from Captain Pullen. At this season of the year travelling on ice is always considered dangerous, both on account of its decayed condition, and its liability to separate from the shore and break up. Accordingly, Pullen cautioned Bellot to keep as close to the eastern shore of Wellington Channel as possible, and provided the party with one of the light India-rubber boats, which could be easily dragged on their sledge, and without which, at such a season, it would have been very unsafe to travel.

That evening they encamped about three miles from Cape Innes. Next day they made considerable progress, and when night approached made their bed upon the broken ice over which they had been plodding during the day. This was near Cape Bowden. On the following day, which was Sunday, they passed a crack about four feet wide, running across the channel. During all this time no doubts were entertained as to the safe condition of the ice; and Bellot, in his usual encouraging way, cheered on the men, and put his shoulder to the tracking-lines, saying that he wished to get to a cape which was seen a good way ahead, and which he called



Cape Grinnell. Near this it was desirable to encamp in-shore, if possible.

On arriving at the cape, it was found that there was a broad belt of water between the ice and the shore. This would have been a matter of little moment, had there been no wind, as they could have easily crossed it in the boat; but there was unfortunately a strong breeze blowing from the south-east, which curled up the surface of the cold black waves in a very ominous way. There was no help, however; so the boat was launched, and Bellot endeavored to reach the shore in it alone, intending to convey a line by which the remainder of the party and the provisions might be dragged over. In this attempt he failed, the violence of the gale being too much for him; he therefore returned to the ice, and ordered Harvey and Madden to get in and attempt the passage together. This they did, and were successful in landing; after which they began the operation of passing and repassing the boat between the ice and the shore, by means of lines. In this way three loads were landed from the sledge, and the party on the ice were hauling the boat off for a fourth, when Madden, who had hold of the shore-line, and was up to his middle in the water, called out suddenly that the ice was on the move, and driving off shore. It was evident that he could not hold the line longer without being dragged into deep water; so Bellot called out to him to let go, which he did.

Bellot and his two men then hauled the boat on to the sledge, and ran it up to the windward side of the ice, intending to launch it there and make for the shore. Ere this could be accomplished, however, the ice, whose motion was rapidly increasing, had drifted so far from the shore as to render all idea of reaching it hopeless. It may be imagined with what feelings Madden and

Harvey now hastened to an eminence, and watched their comrades drifting out to sea on a floe of ice, with a bitter breeze urging them further and further from hope of escape, and deeper among the drifting ice. During two hours they sat thus watching them, until at last they were lost to view amid the driving snow. When last seen, the two men were standing by the sledge, and Bellot on the top of a hummock.

Madden and Harvey now descended to the shore, and instantly began their return-journey to the ship. They walked round Griffin Bay, with very little provisions, and reached Cape Bowden, where they remained to take some rest. While there, two men were seen hastening toward them. To their great surprise and joy, these proved to be Johnson and Hook, who had almost miraculously escaped from their perilous position on the ice; but their sad countenances too truly told that their companion, the brave young Frenchman, was gone.

After getting a little refreshment, the whole party now returned to their ship, which they reached in safety, though not without much difficulty and severe privation. The melancholy fate of poor Bellot cannot be better told than by giving it in the words of Johnson, who was with him on the ice at the time of his death. "We got the provisions on shore," says he, "on Wednesday, the 17th. After we had done that, there remained on the ice Hook, Lieut. Bellot, and myself, having with us the sledge, Mackintosh-awning, and little boat. Commenced trying to draw the boat and sledge to the southward, but found the ice driving so fast that we left the sledge and took the boat only; but the wind was so strong at the time that it blew the boat over and over. We then took the boat with us, under shelter of a piece of ice, and Mr. Bellot and ourselves commenced cutting

an ice-house with our knives for shelter. Mr. Bellot sat for half an hour in conversation with us, talking on the danger of our position. I told him I was not afraid, and that the American expedition was driven up and down this channel by the ice. He replied, 'I know they were ; and when the Lord protects us, not a hair of our heads shall be touched.'

"I then asked Mr. Bellot what time it was. He said, 'About quarter past eight A. M.' (Thursday, the 18th), and then lashed up his books, and said he would go and see how the ice was driving. He had only been gone about four minutes, when I went round the same hummock under which we were sheltered to look for him, but could not see him ; and, on returning to our shelter, saw his stick on the opposite side of a crack, about five fathoms wide, and the ice all breaking up. I then called out 'Mr. Bellot !' but no answer — (at this time blowing very heavy). After this, I again searched round, but could see nothing of him.

"I believe that when he got from the shelter the wind blew him into the crack, and, his south-wester being tied down, he could not rise. Finding there was no hope of again seeing Lieut. Bellot, I said to Hook, 'I'm not afraid : I know the Lord will always sustain us.' We commenced travelling, to try to get to Cape De Haven, or Port Phillips ; and, when we got within two miles of Cape De Haven, could not get on shore ; and returned for this side, endeavoring to get to the southward, as the ice was driving to the northward. We were that night and the following day in coming across, and came into the land on the eastern shore a long way to the northward of the place where we were driven off. We got into the land at what Lieut. Bellot told us was Point Hogarth.

"In drifting up the straits towards the Polar Sea, we

saw an iceberg lying close to the shore, and found it on the ground. We succeeded in getting on it, and remained for six hours. I said to David Hook, 'Don't be afraid; we must make a boat of a piece of ice.' Accordingly, we got on to a piece passing, and I had a paddle belonging to the India-rubber boat. By this piece of drift-ice we managed to reach the shore, and then proceeded to where the accident happened. Reached it on Friday. Could not find our shipmates, or any provisions. Went on for Cape Bowden, and reached it on Friday night."

When the Esquimaux heard of Bellot's death, they shed tears, and cried "Poor Bellot! poor Bellot!" Two years before, he had seen an Esquimaux dragging himself painfully over the ice, with a broken leg. To call the carpenter, give him directions to make a wooden leg for the poor fellow, and to teach him to walk with it, were matters of course for the generous young Frenchman; but they were unusual kindnesses for a white man to show to an Esquimaux, and the simple-hearted people remembered it when they cried "Poor Bellot!"

Poor Bellot!—his was a brave, a generous, and a kindly heart. His talents and energy were deeply appreciated by the nation to which he had volunteered his services; and his affectionate, manly disposition had endeared him to the comrades with whom he had spent so many stormy days and nights in the regions of ice and snow. The howling blast of the north, and the dark waters of the polar seas, are sweeping over his mortal frame; but an imperishable wreath—a tribute of gratitude and affection, twined by the hands of France and England—shall rest upon his brow forever.

Mr. Bellot is another added to the list of those brave, enthusiastic spirits, that have been thus prematurely

snatched away, and wrapt in the cold embrace of the Arctic seas. The English have expressed their sense of his services and his virtues by a subscription for his family, and for a monument to be erected to his memory in Greenwich Hospital.

Capt. Inglefield, in his steamer the *Phoenix*, accompanied by the sailing-vessel *Talbot*, was sent to the Arctic regions again in 1854, with dispatches and supplies for Sir E. Belcher. There we shall hear of him again in the course of our narrative.







## CHAPTER XVIII.

THE RESOLUTE AND INTREPID. — BESET AGAIN. — WINTER IN THE PACK — BOTH VESSELS ABANDONED. — BELCHER'S EXPLORATIONS. — REMAINS OF STRUCTURES. — ATTEMPT TO REACH BEECHEY ISLAND. — ABANDONMENT OF THE ASSISTANCE AND PIONEER. — ALL PARTIES ASSEMBLE AT BEECHEY ISLAND. — ARRIVAL OF THE PHOENIX AND TALBOT. — RETURN TO ENGLAND. — OUTWARD VOYAGE OF THE PHOENIX. — COLLINSON'S VOYAGE. — RAE'S EXPEDITION. — RELICS OF FRANKLIN. — ANDERSON'S JOURNEY.

THE *Resolute* and *Intrepid*, with their inmates, including the sixty men from the *Investigator*, remained ice-bound at Dealy Island during the best part of the summer of 1853. At last, on the 18th of August, a strong gale blowing off shore broke up the ice. The vessels at once got under way; by night they were at sea, and the navigators congratulated themselves that they were now fairly making progress towards home. But within twenty-four hours they were brought up by the pack of Byam Martin Channel; and there they lay watching for an opening to dash across to Bathurst Land, and run for Beechey Island under its lee.

Day after day passed. The drifting pack presented no available opening. Winter was fast advancing. The prospect of escape before another season began to look gloomy. Still, the navigators did not abandon the hope; but they occupied themselves in securing game, as a provision against the coming winter. This they found in abundance, especially musk-oxen; and some ten thousand pounds were obtained and frozen. An attempt was finally made to force through the pack.

but on the 9th of September the vessels became firmly imbedded in the newly-formed ice, and, a north-west gale forcing the pack upon them, they were fairly beset, and obliged to go whither it and Providence listed.

Two months they were drifting helplessly, amidst great perils. Right pleased was Kellett to find that after the 12th of November the ships were at rest, having reached a point about due east of Winter Harbor, Melville Island, in longitude  $101^{\circ}$  west, — an admirable position for an early escape in the ensuing season. Here they passed the winter of 1853-4, — long months of darkness and weariness, but with no worse mishap than the loss of one officer, who died on the 14th of November.

The log-book of that winter is a curious record; the ingenuity of the officer in charge was well tasked to make one day differ from another. Each day has the first entry for "ship's position" thus: "In the floe off Cape Cockburn;" and the blank for the second entry thus: "in the same position." Lectures, theatricals, schools, etc., whiled away the time.

The spring of 1854 arrived. M'Clure and his crew started with sledges on the 14th of April for Beechey Island, to find a resting-place on board the North Star and at the dépôt. Kellett made arrangements to continue the search. While thus engaged, he received a letter from Sir Edward Belcher, suggesting that, rather than risk the detention of another season, he should abandon his ships and meet him (Belcher) at Beechey Island before the 26th of August. Kellett remonstrated, stating that the vessels were in a favorable position for escape; that they had abundance of provisions, and that parties concerned in deserting ships under such circumstances "would deserve to have the iackets taken off their backs." Then came a positive

order from Belcher. Both vessels were to be abandoned.

Two distant travelling parties were already out on searching expeditions. Word was left at a proper point for their guidance. Then, having fitted the *Intrepid's* engines so that she could be got under steam in two hours, having stored both ships with provisions, and made them in every respect "ready for occupation," Kellett ordered the hatches to be calked down, all hands looked their last on the *Resolute* and *Intrepid*, and on the 15th of May, 1854, they started, with sledges, for Beechey Island, where their unexpected arrival caused much surprise to the officers and crew of the *Investigator*, who had preceded them.

All this time the other division of the squadron, consisting of the *Assistance* and *Pioneer*, under Sir Edward Belcher, which, as we have seen, sailed north on the day before Kellett sailed west, namely, on the 14th of August, 1852, had been engaged in exploring Wellington Channel. Having reached latitude  $76^{\circ} 52'$ , and longitude  $37^{\circ}$  west, the vessels came to anchor in a locality near Cape Beecher, which was chosen for their winter quarters. Boat and sledge explorations to the northward were commenced on the 23d of August. On the 25th, when rounding a point where the coast suddenly turns to the eastward, the remains of several well-built Esquimaux houses were discovered. "They were," says Belcher, "not simply circles of small stones, but two lines of well-laid wall in excavated ground, filled in between by about two feet of fine gravel, well paved, and, withal, presenting the appearance of great care — more, indeed, than I am willing to attribute to the rude inhabitants or migratory Esquimaux. Bones of deer, wolves, seals, etc., were numerous, and coal was found." There is no mention of any

search having been made for a record, though in all probability this was not neglected ; yet the absence of any cairn would seem to render it unlikely that such a document existed.

The explorations led to the discovery of various lands, to the most extensive of which the name of North Cornwall was given, and of several islands washed by a sea open to the north, which Belcher regarded as the polar basin. The name of Victoria Archipelago was given to a group of islands in  $78^{\circ} 10'$  ; and the easternmost, forming the channel which communicates with the Polar Sea, was named North Kent.

On the 2d of May, 1853, the north-east division of the sledging-parties left the ship, and soon reached the limit of their discoveries of the previous year.

During this journey Belcher pushed toward North Cornwall and Jones's Strait ; but was unexpectedly stopped beyond Cape Disraeli, about the end of the month on which he set out, by the early disruption of the ice.

"The sight which I obtained from this cape," says he, "elevated six hundred and eighty feet above the sea, led me to hope for better success due east. On that course we proceeded three days on a smooth floe, making thirty-six miles, when we reached, on the 18th, the entrance of a splendid channel. Fog had for some time worried us with indistinct glimpses of the approaches ; but, as it now cleared off, and the sun enlivened the scene, we were regaled with such a magnificent view of successive beetling headlands on either side of the channel, and extending for about twenty miles, that it really became a puzzling matter to find names for them. Of one thing I felt quite convinced — namely, that we were now really in Jones's Channel. The latitude, the direction, the limit in longitude to

which we could see, only required an extension of sixty miles to lead to the cairn erected by Captain Austin's party. The roughness of the frozen pack now compelled us to take to the land, and we advanced easily five or six miles, when a further stop to our progress was opposed in the shape of an abrupt glacier, and the mortifying discovery that its base was washed by the sea, while the off-lying pack was rotten and tumbling asunder.

"Not easily daunted, it was determined to try an overland route, and avoid this unfortunate hole, as we then thought it. Provisions, etc., were strapped on, and we soon started to view what we had to contend with before deciding on our ultimate mode of action. The hills continued increasing in height as we advanced, until they reached fifteen hundred feet. We then descended and took up another position at nearly the same height as the last bluff, when we encamped for the night. All our hopes were crushed! Between us and the distant bluff the open sea prevailed on the 20th of May! The horizon was streaked with open 'sailing-ice,' and all communication cut off for sledges. The bluff, distant sixteen miles, was clearly the turning-point into Jones's Channel; no land was visible beyond it."

More than once their hopes were raised, during the return-journey, by the discovery of the remains of structures that had evidently been made by human hands, yet not, apparently, by those of Esquimaux. "Our progress was tantalizing, and attended with deep interest and excitement. In the first place, I discovered, on the brow of a mountain about eight hundred feet above the sea, what appeared to be a recent and a very workmanlike structure. This was a dome, — or rather a double cone, or ice-house, — built of very heavy



and tabular slabs, which no single person could carry. It consisted of about forty courses, eight feet in diameter, and eight feet in depth, when cleared, but only five in height from the base of the upper cone as we opened it.

"Most carefully was every stone removed, every atom of moss or earth scrutinized; the stones at the bottom also taken up; but without finding a trace of any record, or of the structure having been used by any human being. It was filled by drift snow, but did not in any respect bear the appearance of having been built more than a season. This was named 'Mount Discovery.'"

A short time afterwards he writes: "Leaving our crew, pretty well fatigued, to pitch the tent and prepare the customary pemmican meal, I ascended the mountain above us, and discovered that we really were not far from our old position of last year, on Cape Hogarth, and had Cape Majendie and Hamilton Island to the west, about twenty miles.

"My surprise, however, was checked suddenly by two structures rather in European form, and apparently graves; each was similarly constructed, and, like the dome, of large selected slabs, having at each end three separate stones, laid as we should place head and foot stones. So thoroughly satisfied was I that there was no delusion, I desisted from disturbing a stone until it should be formally done by the party assembled.

"The evening following—for where the sun is so oppressive to the eyes by day we travel by night—we ascended the hill, and removed the stones. Not a trace of human beings!"

Thus Belcher and his men travelled about during the whole season, exploring the coasts around Wellington Channel, now on foot, and then in boats, as circum-

stances permitted, but without discovering any clue to the fate of Sir John Franklin. Belcher differs from M'Clure and other explorers in regard to the abundance of animal life in Arctic climes. "By extraordinary good fortune," he says, "bears might fall in the way of the traveller; but, having killed and eaten his proportion, I much doubt if his strength would enable him to drag the remains until another piece of similar good fortune befell him. The assertion, therefore, of any 'teeming or abundance of animal life' in this north-eastern district, is utterly untenable."

On his return from this journey, Belcher first learned of the safety of Captain M'Clure and his crew in the Bay of Mercy.

The ships were liberated from the ice on the 14th of July. Belcher did not persevere in his attempts to push further north, notwithstanding his belief in an open Polar Sea, but shaped his course for Beechey Island. Cape Majendie was reached at an early day. Some time was then spent in surveying the Bays of Baring and Prince Edward, when the further advance of the ships was stopped by a solid floe of ice. After much warping and blasting to no purpose, in which many serious risks were encountered, the vessels were beset for a second winter (1853-4) at the southern horn of Baring's Bay.

When the spring came, Sir Edward's whole thoughts seem to have been turned towards getting himself and crews safe back to England. He determined, at all events, that they should not remain another winter in the ice. With this view, he sent the order to Captain Kellett, which we have related, and proceeded to manage his own vessels in a similar spirit.

On the 6th of August, 1854, the Assistance and Pioneer broke out of their winter quarters, and advanced

slowly down the channel. The ice in Barrow's Strait broke up at the same time, and by the 22d the floe of Wellington Channel was open for fifteen miles north of the strait. A belt of ice, only twenty miles in extent, and that much cracked, was all that remained between the ships and the waters communicating with the Atlantic; yet it was determined to abandon the vessels, and, on the 26th of August, 1854, both the Assistance and Pioneer were deserted, and the crews made their way to Beechey Island.

Kellett and M'Clure, with the men under their command, were there awaiting them. The searching parties had come in during the summer, and, on the 12th of June, Lieutenant Meham had brought from Princess Royal Island news of the Enterprise, the first that had been heard from her since 1851. He had found records left by Collinson, as late as August, 1852, in which the latter announced his intention to follow the channel between Wollaston and Prince Albert's Land. Kellett was in favor of remaining and sending parties to his relief; but Belcher was bent on going home. All the officers and men of the Assistance, Pioneer, Resolute, Intrepid, and Investigator, accordingly got on board the North Star, and had just made sail when the Phoenix and Talbot, under Inglefield, hove in sight, rounding Cape Riley. A distribution of the crews was made among the three vessels. On the 6th of September they reached Disco, and on the 28th of September, 1854, were all safely landed in England.

The outward voyage of Inglefield on this occasion seems to have had its full share of dangers. After safely crossing the Atlantic in his steamer, the Phoenix, accompanied by the sailing vessel Talbot, he proceeded up Baffin's Bay, speaking some whalers by the way, and touching at Lievely for coal, which is abundant in

these regions. Ice soon began to retard them, but they were enabled to break through it much more easily than were the navigators of former years, in consequence of the power of steam, which has greatly altered the mode of progression even in the regions of the north, not only by enabling the vessels to wend their way among loose ice in calm weather, but by giving them the power of *charging* the opposing masses under full steam, and so smashing a passage in places where, formerly, the unwieldy sailing-ship would have been detained for weeks, and perhaps set fast for the winter.

"For ten days," says Inglefield, "we pushed on through heavy ice, blasting, boring, charging the nips, and making but slow advance, the bay-ice, forming strong every night, much retarding our progress; and, on the 17th of August, we were closely beset at the edge of a large floe some miles in extent. Luckily, a strong gale from the westward broke up the edges of this floe, and, on the weather moderating, slacked the ice sufficiently to admit of our pushing through, and on the 19th we were fortunate enough to get into the west water."

After this he proceeded to Wollaston Island, where he found that a *dépôt* of provisions had been discovered by the Esquimaux, and almost entirely broken up. "Deeming it beneficial for the service upon which I was employed, and acting under the discretionary orders with which their lordships have been pleased to supply me, I determined upon examining the *dépôt* near Wollaston Island, deposited by the North Star, in 1850. For that purpose I made the south shore of Lancaster Sound, and, on the 21st, about 8.30 P. M., we passed near enough to Cape Hay to observe the coals deposited there, in 1849, by Captain Parker, of the Truelove. Observing that the staff and two casks containing letters

and provisions were missing, I landed, and found that no trace remained of these but a portion of the head of one of them, and some broken preserved meat-tins. The coals, too, had been either carried away by the Esquimaux or the ice, there being only twenty-one bags. A little after ten we rounded Cape Castlereagh, and soon found the remains of the North Star's dépôt. Anchoring in five fathoms, we lashed the Talbot alongside, and on landing I found that this spot had also been visited by the Esquimaux. They had not only plundered it of all that was useful to them, but had showed a reckless wantonness in the destruction of every remaining article.

"Of the six hundred and eight casks and cases that were landed by Mr. Saunders, only one hundred and fourteen remained; and each had been stove for the examination of their contents, which consisted of flour, peas, Scotch barley, oat-meal, and tobacco. Finding the flour only partially destroyed in each cask, I determined on embarking all that still remained; and the whole was shipped off to the Phoenix, with ten tons of patent fuel, which latter I did not hesitate to embark, as Sir Edward Belcher had sent a vessel two years before to examine this dépôt, and directed her commander to take the whole of the coal from the neighboring point."

From this point, the Phoenix and Talbot sailed to Cape Warrender, at which place they were very nearly lost. Captain Inglefield went ashore to examine a cairn that he had erected there the previous year. Returning on board, he found a strong westerly breeze with ebb-tide, which prevented much headway being made; so they returned to seek anchorage for the night in Dundas Harbor. "Unfortunately," says Inglefield, "when picking up a berth, we struck soundings in fifteen fathoms, and, immediately after three, both ships grounded on a



mud bank, and, the tide falling, every exertion to get the Phoenix afloat proved useless, though the Talbot was warped off into deep water, where, both her bower anchors being let go, the chain of the small one was passed into the Phoenix's quarter hawse-hole, and a heavy strain brought upon it. At three the following morning the strong breeze broke the ice away from the head of the bay, and, driving out, took the Phoenix on her starboard broadside, and laid her over on her beam ends, forcing her still further on shore, and tearing off the whole of the false keel. The Talbot, though pushed again on the bank, escaped any damage from the ice, being sheltered by this vessel, which was to windward of her. The day flood proving only a half-tide, we remained immovably fixed until the evening, by which time all the boats of both vessels had been laden with heavy stores to lighten this vessel: and I am happy to say that, about 11 P. M., both ships floated off into deep water, with no other damage than I have stated."

Having now disposed of all the searching expeditions on the Baffin's Bay side of the continent, excepting only that of Dr. Kane, to which we shall devote a separate chapter, it remains for us to complete the history of the other expeditions that proceeded by way of Behring's Strait. To connect the thread of our narrative, we must remind the reader that we left her majesty's ship Enterprise, Captain Collinson, consort of the Investigator, in the Pacific Ocean. She reached the latitude of Icy Cape, September 22d, 1850; when, meeting the pack-ice, she went south for a warmer climate, so as to be ready to resume operations in the season of 1851. All that Collinson knew of the position of M'Clure was a report from the Plover that the Investigator had been seen, under a press of canvas, steering northward, off Wainwright Inlet. Unfortunately, one of the rumors

connected with this report induced Collinson to allow an enterprising young officer, Lieutenant Barnard, to be landed in the Russian north-west American settlements, in order to inquire into the truth. In carrying out this service, Barnard was brutally murdered, in February, 1851, by Indians, in a surprise of one of the Russian posts, called Darabin redoubt, not far from Norton Sound. The sad catastrophe is briefly told in the handwriting of poor Barnard, in the annexed note to Dr. Adams :

"DEAR ADAMS : I am dreadfully wounded in the abdomen ; my entrails are hanging out. I do not suppose I shall live long enough to see you. The Cu-u-chuc Indians made the attack while we were in our beds. Boskey is badly wounded, and Darabin is dead.

"I think my wound would have been trifling had I had medical advice. I am in great pain. Nearly all the natives of the village are murdered. Set out for this place in all haste.

JOHN BARNARD."

The hand-writing of this note betrayed the anguish which the gallant writer was suffering, and parts of it were nearly illegible.

On the 29th of July, 1851, Collinson, in the *Enterprise*, rounded Point Barrow, steered up Prince of Wales Strait, and here, on Princess Royal Island, discovered the Investigator's dépôt, and a cairn containing information up to June 15th, 1851. Passing on, the *Enterprise*, on the 30th of August, reached the north end of the strait, but only to be foiled in any attempt to pass beyond it. Collinson now decided on taking a course exactly similar to that of his more fortunate predecessor, M'Clure ; but, on the 3d of September, little thinking that the Investigator had preceded him in his intended course, he found, to his surprise, on Cape Kellett, a record placed there on August 18th. The ice was now too close for him to push on ; and, no harbor fit for winter quarters offering itself as high as latitude

72° 54' north, Collinson bore up, and eventually wintered his ship on the eastern side of the entrance of Prince of Wales Strait. Thence he pursued his explorations in the neighborhood of Banks's Land, Albert Land, Wollaston Land, and Victoria Land, concerning the geography of which he obtained much valuable information. At Cambridge Bay, in Wollaston Land, where the *Enterprise* passed the winter of 1852-3, he saw in the possession of the Esquimaux a piece of iron and fragment of a doorway, or hatch-frame, which it is thought must have belonged to the *Erebus* or *Terror*; but this trace led to no further discoveries, nor was anything ascertained in regard to the fate of Sir John Franklin.

The *Enterprise* was absent longer than any of the other searching expeditions, and was equally distinguished by the ability, heroism, and endurance, displayed by her officers and crew; but, as their adventures are similar to those already related, we do not think it necessary to give them in more detail. Long after the people of England were assured of the safety of M'Clure, they continued to feel anxiety regarding the fate of Collinson. But the latter had the good fortune to retrace his steps by the way he came, and brought his ship and crew safely back to England. In the mean time, the *Plover*, the other vessel of the Pacific squadron, had also reached home in safety. Mr. Kennedy, in the *Isabel*, who sailed in 1853 to carry assistance to Collinson, was shipwrecked on the coast of South America, where his crew having mutinied and deserted, his voyage was abandoned.

Shortly after the return of Belcher and M'Clure, with the crews of their deserted ships, another note of information was sounded from the Arctic regions, but its tone was very sad. The *Montreal Herald* of October 21st, 1854, published a letter from Dr. Rae to the gov

ernor of the Hudson's Bay Company, giving an account of the exploration from which he had just returned. From this letter, which was dated York Factory, 4th August, 1854, it appeared that Rae reached his old quarters, at Repulse Bay, on the 15th of August, 1853, and there passed the ensuing winter. On the 31st of March, 1854, his spring journey commenced. On the 17th he reached Pelly Bay, where he met Esquimaux, from whom he obtained several articles which were identified as belonging to various members of Sir John Franklin's party.

The possession of these articles by the Esquimaux was accounted for by a story which is related in the following extract from Dr. Rae's journal, published soon after his arrival in England: "On the morning of the 20th we were met by a very intelligent Esquimaux, driving a dog-sledge laden with musk-ox beef. This man at once consented to accompany us two days' journey, and in a few minutes had deposited his load on the snow, and was ready to join us. Having explained to him my object, he said that the road by which he had come was the best for us; and, having lightened the men's sledges, we travelled with more facility. We were now joined by another of the natives, who had been absent seal-hunting yesterday, but, being anxious to see us, had visited our snow-house early this morning, and then followed up our track. This man was very communicative, and, on putting to him the usual questions as to his having seen 'white man' before, or any ships or boats, he replied in the negative; but said that a party of 'Kabloomans' had died of starvation a long distance to the west of where we then were, and beyond a large river. He stated that he did not know the exact place, that he never had been there, and that he could not accompany us so far. The sub-

stance of the information then and subsequently obtained from various sources was to the following effect :

“ In the spring, four winters past (1850), while some Esquimaux families were killing seals near the north shore of a large island, named in Arrowsmith's charts King William's Land, about forty white men were seen travelling in company southward over the ice, and dragging a boat and sledges with them. They were passing along the west shore of the above-named island. None of the party could speak the Esquimaux language so well as to be understood, but by signs the natives were led to believe that the ship or ships had been crushed by ice, and that they were now going to where they expected to find deer to shoot. From the appearance of the men — all of whom, with the exception of an officer, were hauling on the drag-ropes of the sledge, and looked thin — they were then supposed to be getting short of provisions ; and they purchased a small seal, or piece of seal, from the natives. The officer was described as being a tall, stout, middle-aged man. When their day's journey terminated, they pitched tents to rest in.

“ At a later date the same season, but previous to the disruption of the ice, the corpses of some thirty persons and some graves were discovered on the continent, and five dead bodies on an island near it, about a long day's journey to the north-west of the mouth of a large stream, which can be no other than Back's Great Fish River (named by the Esquimaux Oot-koo-hi-ca-lik), as its description and that of the low shore in the neighborhood of Point Ogle and Montreal Island agree exactly with that of Sir George Back. Some of the bodies were in a tent, or tents ; others were under the boat, which had been turned over to form a shelter ; and some lay scattered about in different directions. Of those seen on the island, it was supposed that one was that of an officer



(chief), as he had a telescope strapped over his shoulders, and a double-barrelled gun lay underneath him.

"From the mutilated state of many of the bodies, and the contents of the kettles, it is evident that our wretched countrymen had been driven to the dread alternative of cannibalism as a means of sustaining life. A few of the unfortunate men must have survived until the arrival of the wild-fowl (say until the end of May), as shots were heard, and fresh bones and feathers of geese were noticed near the scene of the sad event.

"There appears to have been an abundant store of ammunition, as the gunpowder was emptied by the natives in a heap on the ground out of the kegs or cases containing it, and a quantity of shot and ball was found below high-water mark, having probably been left on the ice close to the beach before the spring commenced. There must have been a number of telescopes, guns (several of them double-barrelled), watches, compasses, &c., all of which seem to have been broken up, as I saw pieces of these different articles with the natives, and I purchased as many as possible, together with some silver spoons and forks, an Order of Merit in the form of a star, and a small silver plate engraved 'Sir John Franklin, K.C.B.'"

Dr. Rae concludes by expressing the opinion that no violence had been offered to the sufferers by the natives, but that they were starved to death. The following is a list of the articles obtained from the Esquimaux: One silver table-fork — crest, an animal's head with wings extended above; three silver table-forks — crest, a bird with wings extended; one silver table-spoon — crest, with initials "F. R. M. C." (Captain Crozier, Terror); one silver table-spoon and one fork — crest, bird with laurel-branch in mouth, motto, "*Spero meliora*;" one silver table-spoon, one tea-spoon, and one dessert-

fork — crest, a fish's head looking upwards, with laurel-branches on each side; one silver table-fork — initials, "H. D. S. G." (Harry D. S. Gocchar, assistant-surgeon, Erebus); one silver table-fork — initials, "A. M'D." (Alexander M'Donald, assistant-surgeon, Terror); one silver table-fork — initials, "G. A. M." (Gillies A. Macbean, second master, Terror); one silver table-fork — initials, "J. T.;" one silver dessert-spoon — initials, "J. S. P." (John S. Peddie, surgeon, Erebus); a round silver plate, engraved, "Sir John Franklin, K.C.B.;" a star or order, with motto, "*Nec aspera terrent*, G. R. III. MDCCCXV."

On obtaining the above information, Dr. Rae instantly hastened to England, for the purpose of preventing any further expeditions being despatched in search of the lost navigators. His report, as might have been expected, was subjected on all hands to criticism and comment. Many were of opinion that the information obtained did not warrant the conclusion that the whole party was lost. Some of the criticisms made on his report induced Dr. Rae to take up the pen in self-defence; and in a letter which he addressed to the editor of the *London Times* we find the following remarks, which come with great weight from one who, of all others, is most competent to speak authoritatively. They were written in reply to an attack made upon him by a gentleman who had a relative with the lost expedition, and serve to show how difficult it is to form a correct judgment on subjects of which we have not had personal experience.

"It is asked by your correspondent," says Dr. Rae, "where Esquimaux can live, where Dr. Rae's party could find abundant means, what should prevent Sir John Franklin and his party from subsisting too?"

"No man but one perfectly unacquainted with the

subject could ask such a question. At the season when Sir John Franklin's party was seen travelling over the ice, the seal-holes are covered by snow, and can only be discovered by the acute sense of smell of the native dogs; and, after the seal-hole is discovered, much patience, experience, and care, are requisite to kill the seal. As soon as the snow thaws (say in June) the seals show themselves on the ice; but they are then so difficult of approach that not one of my men (Ouligbuck, the interpreter, excepted), although they often made the attempt, could approach near enough to shoot any of these animals.

"I wintered at a part of the Arctic coast remarkable by its geographical formation for the abundance of deer during the autumn migrations, but only then; and it was at that time that we laid up our winter stock of food; but it was hard work even for us (all practised sportsmen, picked men, and in full strength and training) to collect a sufficiency.

"That portion of country near to and on which a portion of Sir John Franklin's party was seen is, in the spring, notoriously the most barren of animal life of any of the Arctic shores; and the few deer that may be seen are generally very shy, from having been hunted during the winter by Indians, on the borders of the woodlands. To prove this scarcity of game, I may add, that during my spring journey of fifty-six days' duration, one deer only and a few partridges were shot by us.

"It is asked by your correspondent, 'Why the unfortunate men should have encumbered themselves with silver forks and spoons and silver plates?' &c. The total weight of the silver forks and spoons could not be more than four or five pounds at the utmost, and would not appear much when divided among forty persons; and any officer who has ever had the misfortune to

abandon his ship or boat anywhere, but more particularly in the Arctic sea, knows how apt men are to encumber themselves with articles far more useless and bulky than a few forks and spoons. I suppose, by 'silver plates,' your correspondent alludes to the silver plate with Sir John Franklin's name engraved thereon, and which may possibly weigh half an ounce, — no great addition to a man's load.

"Again, your correspondent says, 'that the ships have been abandoned, and pillaged by the Esquimaux.' In this opinion I perfectly agree so far as regards the abandonment of the ships, but not that these ships were pillaged by the natives. Had this been the case, wood would have been abundant among these poor people. It was not so, and they were reduced to the necessity of making their sledges of musk-ox skins folded up and frozen together, — an alternative to which the want of wood alone could have reduced them. Another proof that the natives had very little wood among them may be adduced. Before leaving Repulse Bay, I collected together some of the most respectable of the old Esquimaux, and distributed among them all the wood we could spare, amounting to two or three oars and some broken poles. When these things were delivered to them, I bade the Esquimaux interpreter, who speaks both his own and the English language fluently, to ask whether they or their acquaintances near Pelly Bay had now most wood. They all immediately shouted out holding up their hands, that they themselves had most. I need scarcely add that, had the ships been found by the Esquimaux, a stock of wood sufficient for many years for all the natives within an extent of several hundred miles would have been obtained."

From all this it will be seen that the evidence of Dr. Rae went to show that the fate of thirty-five men of the

expedition had been but too surely ascertained ; but there were yet one hundred and three to be accounted for. No one, familiar with the history of Arctic discovery, could entertain much hope of ever seeing the gallant crews of the *Erebus* and *Terror* *alive* ; but there was every reason to believe that the *trail* had been at last struck, and that in a short time we should have the melancholy satisfaction of at least knowing how, when, and where, they perished. For the purpose of ascertaining this, of obtaining the papers of the lost ships, and of burying the remains of their crews, if they should be found, the British government resolved to send out a land expedition to follow up the search of Dr. Rae.

A party was accordingly organized in the summer of 1855, and placed under the command of Mr. James Anderson, chief factor of the Hudson's Bay Company ; Dr. Rae, to whom the command was first offered, having declined it, on account of ill-health. Anderson's expedition started from Fort Resolution on the 22d of June, 1855, and commenced the descent of the Great Fish River in three canoes. They were unaccompanied by any interpreter. On the 30th of July, at the rapids below Lake Franklin, three Esquimaux lodges were seen, and numerous articles, belonging to a boat-equipage, were there found — such as tent-poles, paddles, copper and sheet-iron boilers, tin soup-tureens, chisels, and tools of various kinds. The occupants of the lodges, all but one of whom were women, said (by words and signs) that these things were obtained from a boat, and that the white men belonging to it had died of starvation.

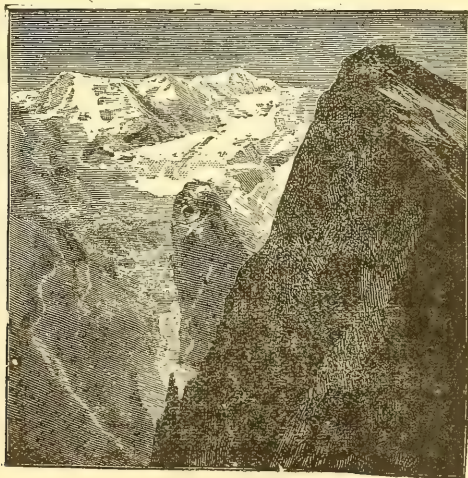
Pushing on again, the party reached Point Beaufort, and at last Montreal Island. There they found some chain-hooks, tools, rope, bunting, and a number of sticks strung together on one of which was cut the

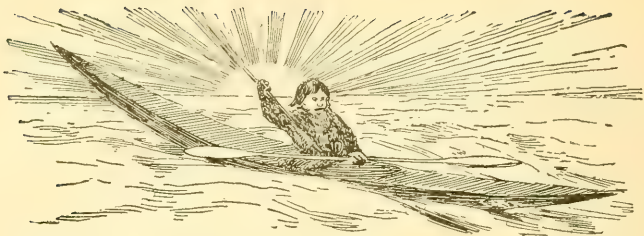


name of " Mr. Stanley " (surgeon of the Erebus) ; also chips, shavings, ends of plank, etc., apparently sawed by unskilful hands. On one the word " Terror " was carved. It was evident to Mr. Anderson that this was the spot where the boat was cut up by the Esquimaux ; but not a vestige of human remains could be discovered, or a scrap of paper. Point Ogle was next examined, and small articles of a similar character were also found there ; but with no other result.

On the 8th of August, 1855, the party began to retrace their steps, having seen no Esquimaux, except the few at the rapids before mentioned, and having been unable to reach King William's Land.

This information was received in England early in 1856, and was confirmatory of Rae's supposition that the Great Fish was the river on which the party he heard of had retreated ; but, so far as the particulars of their fate were concerned, it left the whole matter as much involved in mystery as ever.





## CHAPTER XIX.

**SECOND GRINNELL EXPEDITION. — DR. KANE'S PLAN. — DEPARTURE. — IN THE ICE. — SEARCH FOR A HARBOR. — FROZEN IN. — TEMPERATURE. — INCIDENTS. — LOSS OF DOGS. — DISASTROUS SLEDGING-PARTY. — THE RESCUE. — MEETING WITH ESQUIMAUX. — DISCOVERIES. — ATTEMPT TO REACH BELCHER'S SQUADRON. — ANOTHER WINTER. — PRIVATION AND PERIL. — ABANDONMENT OF THE VESSEL. — FAREWELL TO THE ESQUIMAUX. — IN SAFETY. — REPORT TO NAVY DEPARTMENT. — THE OPEN POLAR SEA. — CHARACTER OF DR. KANE'S ADVENTURES. — HIS PUBLISHED NARRATIVE.**

THE expedition under the command of Dr. Kane sailed from New York on the 30th of May, 1853. It consisted of eighteen chosen men, besides the commander, embarked in a small brig of one hundred and forty-four tons burden, named the *Advance*, which was furnished by Mr. Grinnell, other expenses being contributed by Mr. Peabody and several generous individuals and societies. Dr. Kane's predetermined course was to enter the strait discovered the previous year by Captain Inglefield, at the top of Baffin's Bay, and to push as far northward through it as practicable. He engaged the services of a native Esquimaux, of the name of Hans Christensen, at Fiskernaes, in Greenland, and then crossed Melville Bay in the wake of the vast icebergs with which the sea is there strewn. These huge frozen masses are often driven one way by a deep current, while the floes are drifted in another by winds and surface-streams, disruptions being thus necessarily caused in the vast ice-fields. The doctor's tactics were



ELISHA KENT KANE, M.D.



to dodge about in the rear of these floating ice-mountains, holding upon them whenever adverse winds were troublesome, and pressing forward whenever an opportunity occurred.

Dr. Kane's plan was based upon the probable extension of the land-masses of Greenland to the far north — a fact at that time not verified by travel, but sustained by the analogies of physical geography. Greenland, though looked upon as a congeries of islands connected by interior glaciers, was still regarded as a peninsula, whose formation recognized the same laws as other peninsulas having a southern trend.

Believing in the extension of this peninsula nearer to the pole than any other known land, and feeling that the search for Sir John Franklin would be best promoted by a course that might lead most directly to the supposed northerly open sea, Dr. Kane advanced, as inducements in favor of his scheme: Terra Firma as the basis of his operations; a due northern line which would lead soonest to the open sea; the benefit of northern land to check the southern drift of ice; the presumed existence of animal life; and the coöperation of Esquimaux, whose settlements were supposed to extend far up the coast.

The good ship *Advance* entered the harbor of Fisker-naes, on the 1st of July, "amid the clamor of its entire population assembled on the rocks to greet us." On the 16th of July she passed the promontory of Swartehuk, or Blackhead; and, on the 27th, Wilcox Point; icebergs showing themselves on all sides, and rendering the navigation of Melville Bay full of danger. On the 2d of August they were fairly in the ice, and beset by fogs. It was only at times that the floes opened sufficiently to allow the ship to make her way through them. At midnight of the 3d. however, they got clear of the bay



and of its difficulties, Dr. Kane taking credit to himself for having effected this by an outside passage.

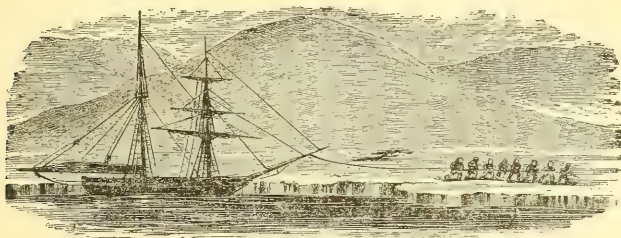
The North Water, the highway to Smith's Sound, was now fairly before them. On the 5th they passed Sir John Ross's "Crimson Cliffs," and the patches of red snow could be seen clearly at the distance of ten miles from the coast; and on the 7th they doubled Cape Alexander — the Arctic pillars of Hercules — and passed into Smith's Sound. Arriving at Littleton Island, they deposited there a boat with a supply of stores, not far from the vestiges of an old Esquimaux settlement.

On the 8th they again closed with the ice, and were forced into a land-locked cove. The dogs, of which they had more than fifty on board, began to be very troublesome; they would devour almost everything that came in their way, from an Esquimaux cranium to a whole feather-bed! The men tried to shoot some walruses, but the rifle-balls rebounded from their hides like pebbles; and it was only by accident that they found the carcass of a narwhal, with which to appease the poor dogs for a time.

All attempts to work the vessel seaward through the floes proving unsuccessful, it was resolved to try for a further northing by following the coast-line. But, although even warping was had recourse to, this also was followed by but very trifling success. On midnight of the 14th they reached the lee side of a rocky island, which, from the shelter it afforded, was designated "Godsend Ledge." It was, however, destined to be so but a short time. On the 20th it came on to blow a hurricane; the hawsers parted one after the other, and the ship was left at the mercy of the winds, waves, and ice, combined. It was a most trying time, and the party underwent many perils ere they found temporary shelter beyond a lofty

cape, and under an iceberg that anchored itself between them and the gale.

The point to which they were thus unceremoniously driven was ten miles nearer the pole than Godsend Ledge ; and on the 22d, the storm having abated, the men were harnessed to the tow-lines, and they began to track along the ice-belt off the coast, warping also at



TRACKING ALONG THE ICE-BELT.

times, but with so little effect that, on the 29th, Dr. Kane rushed on ahead with a small boating-party for a personal inspection of the coast. After twenty-four hours' toil, the boat had to be exchanged for a sledge, with which they also got on but slowly, passing Glacier Bay, Mary Minturn River, — the largest known in North Greenland, being about three fourths of a mile wide at its mouth — Capes Thackeray and Francis Hawkes, to Cape George Russell, from whence could be seen the great glacier of Humboldt, Cape Jackson on the one side, and Cape Barrow on the other, and between them a solid sea of ice.

The gallant captain returned satisfied that he had seen no place combining so many of the requisites of a good winter harbor as the bay in which he had left the *Advance*. So he gave the orders to warp in between two islands They found seven fathom soundings, and

a perfect shelter from the outside ice ; and thus the little brig was laid up in Van Rensselaer Harbor, near a group of rocky islets, in the south-eastern curve of a bay, where she was frozen in on September 10th.

An observatory was erected adjacent to the ship, and a thermal register was kept hourly. The mean annual temperature at this spot appears to be two degrees lower than that of Melville Island, according to Parry. The lowest temperature was observed in February, when the mean of eight instruments gave seventy degrees Fahrenheit. Chloroform froze, essential oils became partly solid and liquid, and, on February 24th, chloric ether was congealed for the first time by natural temperature. For astronomical observations, a transit and theodolite were mounted on stone pedestals, cemented by ice. The longitude was based on moon culminations, corroborated by occultations of planets, and the solar eclipse of May, 1855. The position of the observatory was found to be in lat.  $78^{\circ} 37'$ , and long.  $70^{\circ} 40' 6''$ . Magnetic observations, both absolute and relative, were also kept up.

An excursion was made ninety miles into the interior, when its further progress was arrested by a glacier four hundred feet high, and extending north and west as far as the eye could reach. As to the sledging outfit, they kept on reducing it, until at last they came to the Esquimaux ultimatum of simplicity — raw meat and a fur bag. For the time being, a man thus becomes a mere animal, only with another animal's skin for a cover.

Parties were organized for establishing provision dépôts to facilitate researches in the spring, and more than eight hundred miles were traversed. The Greenland coast was traced for one hundred and twenty-five miles to the north and east, and the largest of the three dépôts along the coast was formed on an island in lat

70° 12' 6", and long. 65° 25'. Darkness arrested these proceedings on November 20th, and the sun continued one hundred and twenty days below the horizon.

One of the first incidents that occurred was setting the ship on fire in an attempt to exterminate the rats with carbonic-acid gas. It ended in nearly asphyxiating the commander and two or three others. The next incident was one of the dogs going rabid — a phenomenon usually supposed to be associated with the heats of summer. Great inconvenience was experienced in the sledge-excursions, and in making "caches" of provisions in this region, from the frequent ice-cracks, or crevasses, as the Swiss would call them, and into which dogs, sledges, and travellers, were sometimes tumbled, at the imminent risk of being carried below the ice by the current — not to mention the danger to health of an immersion with the thermometer many degrees below zero.

The point at which the party were wintering, it is to be observed, was in a higher latitude than the wintering-stations in the Arctic archipelago; and, except on Spitzbergen, no Christians are known to have passed a winter so near to the pole. The darkness was so intense that it necessarily entailed inaction; and it was in vain that they sought to create topics of thought, and, by a forced excitement, to ward off the encroachments of disease. The thermometer fell to ninety-nine degrees below freezing point. Human beings could only breathe in such a temperature guardedly, and with compressed lips.

The influence of such severe cold and long intense darkness was most depressing. Most of the dogs died of affections of the brain, which began, as in the instance of some of the men of the Investigator, with fits, followed by lunacy, and sometimes by lock-jaw. Their disease, Dr. Kane remarks, was as clearly mental as in the case of any human being. Fifty-seven died with

these symptoms. The loss of his dogs seriously affected Dr. Kane's plans; new arrangements had to be formed, which, owing to the smallness of the party, deprived



DOG-SLEDGE.

of the dogs, were necessarily restricted. The addition of four dogs, contributed by Esquimaux, permitted the operations to be considerably extended. Out of nearly three thousand miles traversed, no less than eleven hundred were made with the dog-sledge; and during the following year Dr. Kane himself travelled fourteen hundred miles with a single team.

The month of March brought back perpetual day. The sunshine had reached the ship on the last day of February; they needed it to cheer them. The scurvy spots that mottled the faces of almost all gave sore proof of the trials they had undergone. The crew were now (March, 1854) almost unfitted by debility for arduous work, and only six dogs remained of nine splendid New foundlanders and thirty-five Esquimaux dogs. "An Arctic night and an Arctic day," Dr. Kane emphatically remarks, "age a man more rapidly and harshly than a year anywhere else in all this weary world." Sometimes, in their excursions over the ice, the men had to drag the sledge, and flounder through snow-drifts in which they sank at every step nearly over their legs.





SLEDGE-PARTY.

In order to ascertain whether it were practicable to force a way over the crowded bergs and mountainous ice of the frozen area toward the north, Dr. Kane now organized a party of the strongest men, who volunteered their services for the labor, placing himself at their head ; and, on the 19th of March, sent out an advanced corps to place a relief cargo of provisions at a suitable distance from the brig. On the ninth day of their absence the latter encountered a heavy gale from the north-east ; the thermometer fell to fifty-seven degrees below zero, and the ice-ridges became so obstructed by snow as to prevent their depositing their stores beyond fifty miles from the brig.

By the 31st three of the members of this advance party returned to the brig, swollen, haggard, and hardly able to speak. They had left four of their number in a tent on the ice, frozen and disabled. On being informed of the disaster, Dr. Kane started for the rescue with nine men, under the direction of Mr. Ohlsen, one of the returned party, whose previous exposure, however, had rendered his services as a guide almost useless. We will here quote the commander's own graphic words :

“ We had been nearly eighteen hours out without

water or food, when a new hope cheered us. I think it was Hans, our Esquimaux hunter, who thought he saw a broad sledge-track. The drift had nearly effaced it, and we were some of us doubtful at first whether it was not one of those accidental rifts which the gales make in the surface-snow. But, as we traced it on to the deep snow among the hummocks, we were led to footsteps; and, following these with religious care, we at last came in sight of a small American flag fluttering from a hummock, and lower down a little Masonic banner hanging from a tent-pole hardly above the drift. It was the camp of our disabled comrades: we reached it after an unbroken march of twenty-one hours.

“The little tent was nearly covered. I was not among the first to come up; but, when I reached the tent-curtain, the men were standing in silent file on each side of it. With more kindness and delicacy of feeling than is often supposed to belong to sailors, but which is almost characteristic, they intimated their wish that I should go in alone. As I crawled in, and, coming upon the darkness, heard before me the burst of welcome gladness that came from the four poor fellows stretched on their backs, and then for the first time the cheer outside, my weakness and my gratitude together almost overcame me. ‘They had expected me; they were sure I would come!’”

We copy entire Dr. Kane's spirited account of the retreat of the party, now consisting of fifteen souls:

“It was fortunate indeed that we were not inexperienced in sledging over the ice. A great part of our track lay among a succession of hummocks; some of them extended in long lines fifteen and twenty feet high, and so uniformly steep that we had to turn them by a considerable deviation from our direct course; others that we forced our way through, far above our heads in

height, lying in parallel ridges, with the space between too narrow for the sledge to be lowered into it safely, and yet not wide enough for the runners to cross without the aid of ropes to stay them. These spaces too were generally choked with light snow, hiding the openings between the ice-fragments. They were fearful traps to disengage a limb from ; for every man knew that a fracture, or a sprain even, would cost him his life. Besides all this, the sledge was top-heavy with its load : the maimed men could not bear to be lashed down tight enough to secure them against falling off. Notwithstanding our caution in rejecting every superfluous burden, the weight, including bags and tent, was eleven hundred pounds.

“ And yet our march for the first six hours was very cheering. We made, by vigorous pulls and lifts, nearly a mile an hour, and reached the new floes before we were absolutely weary. Our sledge sustained the trial admirably. Ohlsen, restored by hope, walked steadily at the leading-belt of the sledge-lines ; and I began to feel certain of reaching our half-way station of the day before, where we had left our tent. But we were still nine miles from it, when, almost without premonition, we all became aware of an alarming failure of our energies.

“ I was of course familiar with the benumbed and almost lethargic sensation of extreme cold : and once, when exposed for some hours in the midwinter of Baffin's Bay, I had experienced symptoms which I compared to the diffused paralysis of the electro-galvanic shock. But I had treated the *sleepy comfort* of freezing as something like the embellishment of romance. I had evidence now to the contrary.

“ Bonsall and Morton, two of our stoutest men, came to me, begging permission to sleep ; ‘ they were not cold : the wind did not enter them now : a little sleep

was all they wanted.' Presently Hans was found nearly stiff under a drift; and Thomas, bolt upright, had his eyes closed, and could hardly articulate. At last, John Blake threw himself on the snow, and refused to rise. They did not complain of feeling cold; but it was in vain that I wrestled, boxed, ran, argued, jeered, or reprimanded: an immediate halt could not be avoided.

"We pitched our tent with much difficulty. Our hands were too powerless to strike a fire: we were obliged to do without water or food. Even the spirits (whiskey) had frozen at the men's feet, under all the coverings. We put Bonsall, Ohlsen, Thomas, and Hans, with the other sick men, well inside the tent, and crowded in as many others as we could. Then, leaving the party in charge of Mr. McGary, with orders to come on after four hours' rest, I pushed ahead with William Godfrey, who volunteered to be my companion. My aim was to reach the half-way tent, and thaw some ice and pemmican before the others arrived.

"The floe was level ice, and the walking excellent. I cannot tell how long it took us to make the nine miles; for we were in a strange sort of stupor, and had little apprehension of time. It was probably about four hours. We kept ourselves awake by imposing on each other a continued articulation of words; they must have been incoherent enough. I recall these hours as among the most wretched I have ever gone through: we were neither of us in our right senses, and retained a very confused recollection of what preceded our arrival at the tent. We both of us, however, remember a bear, who walked leisurely before us, and tore up as he went a jumper that Mr. McGary had improvidently thrown off the day before. He tore it into shreds and rolled it into a ball, but never offered to interfere with our progress. I remember this, and with it a confused senti-

ment that our tent and buffalo-robes might probably share the same fate. Godfrey, with whom the memory of this day's work may atone for many faults of a later time, had a better eye than myself; and, looking some miles ahead, he could see that our tent was undergoing the same unceremonious treatment. I thought I saw it too; but we were so drunken with cold that we strode on steadily, and, for aught I know, without quickening our pace.

"Probably our approach saved the contents of the tent; for when we reached it the tent was uninjured, though the bear had overturned it, tossing the buffalo-robes and pemmican into the snow; we missed only a couple of blanket-bags. What we recollect, however, and perhaps all we recollect, is, that we had great difficulty in raising it. We crawled into our reindeer sleeping-bags, without speaking, and for the next three hours slept on in a dreamy but intense slumber. When I awoke, my long beard was a mass of ice, frozen fast to the buffalo-skin: Godfrey had to cut me out with his jack-knife. Four days after our escape, I found my woollen comfortable with a goodly share of my beard still adhering to it.

"We were able to melt water and get some soup cooked before the rest of our party arrived: it took them but five hours to walk the nine miles. They were doing well, and, considering the circumstances, in wonderful spirits. The day was most providentially windless, with a clear sun. All enjoyed the refreshment we had got ready: the crippled were repacked in their robes; and we sped briskly toward the hummock-ridges which lay between us and the Pinnacly Berg.

"The hummocks we had now to meet came properly under the designation of squeezed ice. A great chain of bergs stretching from north-west to south-east, mov-



ing with the tides, had compressed the surface-floes; and, rearing them up on their edges, produced an area more like the volcanic pedregal of the basin of Mexico than anything else I can compare it to.

"It required desperate efforts to work our way over it—literally desperate, for our strength failed us anew, and we began to lose our self-control. We could not abstain any longer from eating snow; our mouths swelled, and some of us became speechless. Happily, the day was warmed by a clear sunshine, and the thermometer rose to  $-4^{\circ}$  in the shade; otherwise we must have frozen.

"Our halts multiplied, and we fell half-sleeping on the snow. I could not prevent it. Strange to say, it refreshed us. I ventured upon the experiment myself, making Riley wake me at the end of three minutes; and I felt so much benefited by it that I timed the men in the same way. They sat on the runners of the sledge, fell asleep instantly, and were forced to wakefulness when their three minutes were out.

"By eight in the evening we emerged from the floes. The sight of the Pinnacly Berg revived us. Brandy, an invaluable resource in emergency, had already been served out in table-spoonful doses. We now took a longer rest, and a last but stouter dram, and reached the brig at one p. m., we believe, without a halt.

"I say *we believe*; and here, perhaps, is the most decided proof of our sufferings; we were quite delirious, and had ceased to entertain a sane apprehension of the circumstances about us. We moved on like men in a dream. Our foot-marks, seen afterward, showed that we had steered a bee-line for the brig. It must have been by a sort of instinct, for it left no impress on the memory. Bonsall was sent staggering ahead, and reached the brig, God knows how, for he had fallen

repeatedly at the track-lines ; but he delivered, with punctilious accuracy, the messages I had sent by him to Dr. Hayes. I thought myself the soundest of all ; for I went through all the formula of sanity, and can recall the muttering delirium of my comrades when we got back into the cabin of our brig. Yet I have been told since of some speeches, and some orders, too, of mine, which I should have remembered for their absurdity, if my mind had retained its balance.

“ Petersen and Whipple came out to meet us about two miles from the brig. They brought my dog-team, with the restoratives I had sent for by Bonsall. I do not remember their coming. Dr. Hayes entered with judicious energy upon the treatment our condition called for ; administering morphine freely, after the usual frictions. He reported none of our brain-symptoms as serious, referring them properly to the class of those indications of exhausted power which yield to a generous diet and rest. Mr. Ohlsen suffered some time from strabismus and blindness ; two others underwent amputation of parts of the foot, without unpleasant consequences ; and two died, in spite of all our efforts. This rescue-party had been out for seventy-two hours. We had halted in all eight hours, half of our number sleeping at a time. We travelled between eighty and ninety miles, most of the way dragging a heavy sledge. The mean temperature of the whole time, including the warmest hours of three days, was at *minus* 41°.2. We had no water except at our two halts, and were at no time able to intermit vigorous exercise without freezing.

“ *April 4, Tuesday.* — Four days have passed, and I am again at my record of failures, sound, but aching still in every joint. The rescued men are not out of

danger, but their gratitude is very touching. Pray God that they may live!"

The first appearance of the Esquimaux is thus described :

"We were watching, in the morning, at Baker's death-bed, when one of our deck-watch, who had been cutting ice for the melter, came hurrying down to the cabin with the report, 'People hollaing ashore!' I went up, followed by as many as could mount the gang-way; and there they were, on all sides of our rocky harbor, dotting the snow-shores, and emerging from the blackness of the cliffs — wild and uncouth, but evidently human beings

"As we gathered on the deck, they rose upon the more elevated fragments of the land-ice, standing singly and conspicuously, like the figures in a tableau of the opera, and distributing themselves around almost in a half-circle. They were vociferating as if to attract our attention, or, perhaps, only to give vent to their surprise; but I could make nothing out of their cries, except 'Hoah, ha, ha!' and 'Ka, kaah! ka, kaah!' repeated over and over again.

"There was light enough for me to see that they brandished no weapons, and were only tossing their heads and arms about in violent gesticulations. A more unexcited inspection showed us, too, that their numbers were not as great, nor their size as Patagonian, as some of us had been disposed to fancy at first. In a word, I was satisfied that they were natives of the country; and, calling Petersen from his bunk to be my interpreter, I proceeded, unarmed, and waving my open hands, toward a stout figure, who made himself conspicuous, and seemed to have a greater number near him than the rest. He evidently understood the movement; for

he at once, like a brave fellow, leaped down upon the floe, and advanced to meet me fully half-way.

“He was nearly a head taller than myself, extremely powerful and well-built, with swarthy complexion, and black eyes. His dress was a hooded *capote* or jumper, of mixed white and blue fox-pelts, arranged with something of fancy ; and booted trousers of white bear-skin, which, at the end of the foot, were made to terminate with the claws of the animal.

“I soon came to an understanding with this gallant diplomatist. Almost as soon as we commenced our parley, his companions, probably receiving signals from him, flocked in and surrounded us ; but we had no difficulty in making them know, positively, that they must remain where they were, while Metek went with me on board the ship. This gave me the advantage of negotiating with an important hostage.

“Although this was the first time he had ever seen a white man, he went with me fearlessly, his companions staying behind on the ice. Hickey took them out what he esteemed our greatest delicacies — slices of good wheat bread, and corned pork, with exorbitant lumps of white sugar ; but they refused to touch them. They had evidently no apprehension of open violence from us. I found, afterward, that several among them were singly a match for the white bear and the walrus, and that they thought us a very pale-faced crew.

“Being satisfied with my interview in the cabin, I sent out word that the rest might be admitted to the ship ; and, although they, of course, could not know how their chief had been dealt with, some nine or ten of them followed, with boisterous readiness, upon the bidding. Others, in the mean time, as if disposed to give us their company for the full time of a visit, brought up from behind the land-ice as many as fifty-six

fine dogs, with their sledges, and secured them within two hundred feet of the brig, driving their lances into the ice, and picketing the dogs to them by the seal-skin traces. The animals understood the operation perfectly, and lay down as soon as it commenced. The sledges were made up of small fragments of porous bone, admirably knit together by thongs of hide ; the runners, which glistened like burnished steel, were of highly-polished ivory, obtained from the tusks of the walrus.

“ The only arms they carried were knives, concealed in their boots ; but their lances, which were lashed to the sledges, were quite a formidable weapon. The staff was of the horn of the narwhal, or else of the thigh-bones of the bear, two lashed together ; or sometimes the mirabilis of the walrus, three or four of them united. This last was a favorite material, also, for the cross-bars of their sledges. They had no wood. A single rusty hoop from a current-drifted cask might have furnished all the knives of the party ; but the fleam-shaped tips of their lances were of unmistakable steel, and were riveted to the tapering, bony point, with no mean skill. I learned afterward that the metal was obtained in traffic from the more southern tribes.

“ They were clad much as I have described Metek, in jumpers, boots, and white bear-skin breeches, with their feet decorated like his, *en griffe*. A strip of knotted leather worn round the neck, very greasy and dirty-looking, which no one could be persuaded to part with for an instant, was mistaken, at first, for an ornament by the crew ; it was not until mutual hardships had made us better acquainted that we learned its mysterious uses.

“ When they were first allowed to come on board, they were very rude and difficult to manage. They spoke three or four at a time, to each other and to us.





THE STEAMER "ARCTIC" UNDER SAIL.



laughing heartily at our ignorance in not understanding them, and then talking away, as before. They were incessantly in motion, — going everywhere, trying doors, and squeezing themselves through dark passages, round casks and boxes, and out into the light again, anxious to touch and handle everything they saw, and asking for or else endeavoring to steal, everything they touched. It was the more difficult to restrain them, as I did not wish them to suppose that we were at all intimidated. But there were some signs of our disabled condition, which it was important they should not see ; it was especially necessary to keep them out of the fore-castle, where the dead body of poor Baker was lying ; and, as it was in vain to reason or persuade, we had, at last, to employ the ‘gentle laying-on of hands,’ which, I believe, the laws of all countries tolerate, to keep them in order.

“Our whole force was mustered, and kept constantly on the alert ; but, though there may have been something of discourtesy in the occasional shoulderings and hustlings that enforced the police of the ship, things went on good-humoredly. Our guests continued running in and out and about the vessel, bringing in provisions, and carrying them out again to their dogs on the ice ; in fact, stealing all the time, until the afternoon, when, like tired children, they threw themselves down to sleep. I ordered them to be made comfortable in the hold ; and Morton spread a large buffalo-robe for them not far from a coal-fire in the galley-stove.

“They were lost in barbarous amaze at the new fuel, — too hard for blubber, too soft for fire-stone, — but they were content to believe it might cook as well as seal’s fat. They borrowed from us an iron pot, and some melted water, and parboiled a couple of pieces of walrus-meat ; but, the real *pièce de résistance*, some five pounds of head, they preferred to eat raw. Yet there

was something of the *gourmet* in their mode of assorting their mouthfuls of beef and blubber. Slices of each, or rather strips, passed between the lips, either together or in strict alternation, and with a regularity of sequence that kept the molars well to their work.

"They did not eat all at once, but each man when and as often as the impulse prompted. Each slept after eating, his raw chunk lying beside him on the buffalo-skin ; and, as he woke, the first act was to eat, and the next to sleep again. They did not lie down, but slumbered away in a sitting posture, with the head declined upon the breast, some of them snoring famously.

"In the morning they were anxious to go ; but I had given orders to detain them for a parting interview with myself. It resulted in a treaty, brief in its terms, that it might be certainly remembered ; and mutually beneficial, that it might possibly be kept. I tried to make them understand what a powerful Prospero they had had for a host, and how beneficent he would prove himself so long as they did his bidding. And, as an earnest of my favor, I bought all the walrus-meat they had to spare, and four of their dogs ; enriching them, in return, with needles and beads, and a treasure of old cask-staves."

The flesh of the seal is eaten universally by the Danes of Greenland, and is, at certain seasons, almost the staple diet of the Esquimaux. These animals are shot lying by their *atluk* or breathing-holes. Their eyes are so congested by the glare of the sun in midsummer as to render them more readily approachable.

"On one occasion," says Dr. Kane, "while working my way toward the Esquimaux huts, I saw a large *Usuk* basking asleep upon the ice. Taking off my shoes, I commenced a somewhat refrigerating process of stalking, lying upon my belly, and crawling along, step by step, behind the little knobs of floe. At last, when I

was within long rifle-shot, the animal gave a sluggish roll to one side, and suddenly lifted his head. The movement was evidently independent of me, for he strained his neck in nearly the opposite direction. Then, for the first time, I found that I had a rival seal-hunter in a large bear, who was, on his belly like myself, waiting with commendable patience and cold feet for a chance of nearer approach.

“What should I do? — the bear was doubtless worth more to me than the seal; but the seal was now within shot, and the bear ‘a bird in the bush.’ Besides, my bullet once invested in the seal would leave me defenceless. I might be giving a dinner to a bear, and saving myself for his dessert. These meditations were soon brought to a close; for a second movement of the seal so aroused my hunter’s instincts that I pulled the trigger. My cap alone exploded. Instantly, with a floundering splash, the seal descended into the deep, and the bear, with three or four rapid leaps, stood disconsolately by the place of his descent. For a single moment we stared each other in the face, and then, with that discretion which is the better part of valor, the bear ran off in one direction, and I followed his example in the other.”

The month of April was about to close, and the short season available for Arctic search was already advanced, when Dr. Kane started on his grand sledge expedition to the north. “It was,” says the enterprising commander, “to be the crowning expedition of the campaign, to attain the *ultima thule* of the Greenland shore, measure the waste that lay between it and the unknown west, and seek round the furthest circle of the ice for an outlet to the mysterious channels beyond.” The rigor of the climate, the difficulties of the country, the failure of the *caches* which had been broken into by the



bears, the enfeebled state of the party, and the inadequacy of means and equipments, all, however, combined to cause failure. By the 5th of May, Dr. Kane had become delirious, and fainted every time that he was taken from the tent to the sledge; so all idea of further progress had to be given up. He was taken into the brig on the 14th, and lay fluctuating between life and death till the 20th.

Some interesting discoveries were, however, made on this unfortunate trip, more especially of two remarkable freaks of nature, one of which was called the "Three Brother Turrets," the other, "Tennyson's Monument." The latter was a solitary column, or "minaret tower" of greenstone, the length of whose shaft was four hundred and eighty feet, and it rose on a plinth, or pedestal. itself two hundred and eighty feet high, as sharply finished as if it had been cast for the Place Vendôme. But by far the most remarkable feature in the inland Greenland sea is the so-called "Great Glacier of Humboldt."

"I will not attempt" (writes Dr. Kane, speaking of the impossibility of giving an idea of this great glacier by sketches) "to do better by florid description. Men only rhapsodize about Niagara and the ocean. My notes speak simply of the 'long, ever-shining line of cliff diminished to a well-pointed wedge in the perspective;' and again, of 'the face of glistening ice, sweeping in a long curve from the low interior, the facets in front intensely illuminated by the sun.' But this line of cliff rose in solid glassy wall three hundred feet above the water level, with an unknown, unfathomable depth below it; and its curved face, sixty miles in length, from Cape Agassiz to Cape Forbes, vanished into unknown space at not more than a single day's railroad-travel from the pole. The interior with which it communicated, and from which it issued, was an unsurveyed

*mer de glace*, an ice-ocean, to the eye of boundless dimensions.

“It was in full sight—the mighty crystal bridge which connects the two continents of America and Greenland. I say continents, for Greenland, however insulated it may ultimately prove to be, is in mass strictly continental. Its least possible axis, measured from Cape Farewell to the line of this glacier, in the neighborhood of the eightieth parallel, gives a length of more than twelve hundred miles,—not materially less than that of Australia from its northern to its southern cape.

“Imagine now the centre of such a continent, occupied through nearly its whole extent by a deep unbroken sea of ice, that gathers perennial increase from the water-shed of vast snow-covered mountains, and all the precipitations of the atmosphere upon its own surface. Imagine this moving onward like a great glacial river, seeking outlets at every fiord and valley, rolling icy cataracts into the Atlantic and Greenland seas; and, having at last reached the northern limit of the land that has borne it up, pouring out a mighty frozen torrent into unknown Arctic space.

“It is thus, and only thus, that we must form a just conception of a phenomenon like this Great Glacier. I had looked in my own mind for such an appearance, should I ever be fortunate enough to reach the northern coast of Greenland. But, now that it was before me, I could hardly realize it. I had recognized, in my quiet library at home, the beautiful analogies which Forbes and Studer have developed between the glacier and the river. But I could not comprehend at first this complete substitution of ice for water.

“It was slowly that the conviction dawned on me that I was looking upon the counterpart of the great river system of Arctic Asia and America. Yet here

were no water-feeders from the south. Every particle of moisture had its origin within the Polar Circle, and had been converted into ice. There were no vast alluvions, no forest or animal traces borne down by liquid torrents. Here was a plastic, moving, semi-solid mass, obliterating life, swallowing rocks and islands, and ploughing its way with irresistible march through the crust of an investing sea."

"Humboldt Glacier" and "Tennyson's Monument" will deservedly occupy a place in all future editions of those interesting little books called "Wonders of the World." As soon as Dr. Kane had recovered enough to become aware of his failure, he began to devise means for remedying it. Of the ship's company, the only one remaining, qualified to conduct a survey, was Dr. Hayes. He accordingly started with a dog-team, in company with William Godfrey, across Smith's Straits, on the 20th of May, and succeeded in reaching  $79^{\circ} 45'$  north latitude, in longitude  $69^{\circ} 12'$ . The coast was sighted for thirty miles to the northward and eastward, and two large headlands, called Capes Joseph Leidy and John Frazer, were named upon it. The doctor returned to the brig, after a very arduous and fatiguing journey, on the 1st of June, worn out and snow-blind. In many places he could not have advanced but for the dogs. Deep cavities filled with snow intervened between lines of ice-barricades, making the travel slow and tedious. For some time he was not able, from snow-blindness, to use the sextant. The rude harness of the dogs would get tangled and cause delay. It was only after appropriating an undue share of his seal-skin breeches that Dr. Hayes succeeded in patching up his mutilated dog-lines. His pemmican became so reduced that to return was a thing of necessity. The land-ice was travelled for a while at the rate of five or six miles an hour; but

after crossing Dobbin Bay, the snows were an unexpected impediment.

Notwithstanding the perils, privations, and sufferings, that had attended all the sledge-parties, Dr. Kane determined to organize another before the brief season for such had gone by. This last, under Messrs. M'Gary and Bonsall, left the brig on the 3d of June, and reached Humboldt Glacier on the 15th. They were provided with apparatus for climbing ice, but failed in all their efforts to scale this stupendous glacial mass. The bears were so bold as actually to poke their heads in at the tent-door, to the great inconvenience of the sleepers within. Four of the party returned to the brig on the 27th, one of them entirely blind.

Hans and Morton remained out, pushing northwards, and keeping parallel to the glacier at a distance of from five to seven miles. They saw rectangular pieces of ice, apparently detached from the glacier, more than a mile long! On the 21st of June they sighted open water. This was afterwards called Kennedy Channel. After turning Cape Andrew Jackson they made better way along the ice-foot; and they pursued their course as far as Cape Constitution, on "Washington Land," in  $82^{\circ} 27'$ . The highest point on the opposite coast of "Grinnell Land" was a lofty mountain, estimated to be in latitude  $82^{\circ} 30'$ , and longitude  $66^{\circ}$  west, which Dr. Kane called Mount Edward Parry; who, he says, "as he has carried his name to the most northern latitude yet reached, should have in this, the highest known northern land, a recognition of his preëminent position among Arctic explorers." This open channel was found to abound in seals; bears were numerous—one with its cub they succeeded in killing; and birds, among which were brent geese, eider-ducks, king-ducks, dovekies, gulls, sea-swallows, and Arctic petrels, were in exceed-

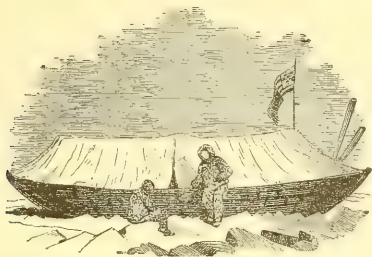
ing plenty. This was the crowning excursion of the expedition, and the results present rich matter for speculation to those who believe in an open polar sea beyond the region of embayed and strangulated ice-floes.

• Instead of the Bay of Baffin forming a *cul de sac*, as the old tradition of the whalers conceived, it leads to a strait (Smith's Strait), which passes on into a channel (Kennedy Channel), that apparently expands into an open polar sea, abounding with life, some three hundred miles further to the north than the head of Baffin's Bay. The shores of this channel, terminating in the Cape Constitution of Mr. Morton, in latitude  $81^{\circ} 22'$ , on the eastern side, and in Sir Edward Parry's peak, about latitude  $82^{\circ} 17'$ , on the western side, had now been delineated and mapped through an extent of nine hundred and sixty miles, at a cost of two thousand miles of travel on foot and in sledges. Mr. Morton commenced his return on the 25th of June, and reached the ship on the 10th of July, staggering by the side of the limping dogs, one of which was riding as a passenger upon the sledge.

The summer of 1854 was now wearing on, and yet no prospects presented themselves of the ice breaking up, so as to liberate the brig. Under these circumstances, Dr. Kane determined upon making an attempt to communicate with Sir Edward Belcher's squadron at Beechey Island. For this purpose a boat was fitted out, called the *Forlorn Hope*, and was carried across the heavy ice-floe to be launched in open water. On their way to the southward they fell in with an island, upon which they killed a number of eider-ducks, and procured a large supply of eggs. On the 19th of July they made Cape Alexander, and were enabled to determine that the narrowest part of Smith's Strait is not, as has been considered, between Cape Isabella and Cape Alexander,



but upon the parallel of  $78^{\circ} 24'$ , where Cape Isabella bears due west of Littleton Island, and the diameter of



THE FORLORN HOPE EQUIPPED.

the channel is reduced to thirty-seven miles. Hence, they passed from the straits into the open seaway. At this time a gale broke upon them from the north, and they were exposed to all its fury in the open whale-boat. They were glad to drive before the wind into the in-shore floes. The pack, so much feared before, was now looked to as a refuge.

Working their way through the broken pack, they reached Hakluyt Island on the 23d of July, where they rested a while and dried their buffalo-robos. The next morning they renewed their labors, but were arrested by the pack off Northumberland Island. For four days they made strenuous efforts to work through the half-open leads, but in vain; they had reached the dividing pack of the two great open waters of Baffin's Bay, and which Dr. Kane considered to be made up of the ices which Jones's Sound on the west, and Murchison's on the east, had discharged and driven together. Under these circumstances, they were obliged to return to Northumberland Island, which they found to be one enormous homestead of auks, dovekies, and gulls, and

where they procured sorrel and cochlearia. Foxes were also very numerous. By the time they got back to the brig, the commander says he and his little party had got quite fat and strong upon the auks, eiders, and scurvy-grass.

On board of the *Advance*, however, which had now been imprisoned by closely-cementing ice for eleven months, as the season travelled on and the young ice grew thicker, faces began, also, to grow longer every day. It was the only face with which they could look upon another winter. "It is *horrible*," writes Dr. Kane, — "yes, that is the word, — to look forward to another year of disease and darkness, to be met without fresh food and without fuel."

Under these circumstances, Dr. Kane called the officers and crew together, and left to every man his own choice to remain by the ship or to attempt an escape to the Danish settlements to the southward. Eight out of the seventeen survivors resolved to stand by the brig and their commander. The remainder started off, on the 28th, "with the elastic step of men confident in their purpose;" but one returned a few days afterwards, and all ultimately either found their way back, or were brought back by the humane Esquimaux, after hard trials, and almost unparalleled sufferings.

Those that remained with the ship set to work at once gathering moss for eking out the winter fuel, and willow-stems and sorrel as antiscorbutics. The "mossing," although it had a pleasant sound, was in reality a frightfully wintry operation. The mixed turf, of willows, heaths, grasses, and moss, was frozen solid. It had to be quarried with crowbars, and carried to the ship like so much stone. With this they banked up the ship's sides, and below they enclosed a space some eighteen feet square, and packed it with the same material from

floor to ceiling. The entrance was also by a low, moss-lined tunnel, and in this apartment the men stowed away for the winter. The closer they lay, the warmer. Dr. Kane was once more nearly lost, however, before darkness came on. In an attempt to kill a seal he got upon thin ice, and was, with dogs and sledge, thrown into open water. He owed his extrication, when nearly gone, to a newly-broken team-dog, who was still fast to the sledge, and drew it and the doctor up on to the floe.

An occasional intercourse had always been kept up with the Esquimaux. We have seen that they came to pilfer, and Dr. Kane retorted by making some of them prisoners. A treaty of friendship was then made, and never broken by the natives. The nearest Esquimaux settlement was distant, by dog-journey, about seventy-five miles; and with this rude but friendly people our adventurers established a communication, and procured from them supplies of bear-meat, seal, walrus, fox, and ptarmigan, which were eaten raw, — the custom in this region. But these supplies became scanty with the approach of the dark months. Attempts to reach the Esquimaux were rendered impracticable by the ruggedness of the ice; and this unfortunate people were themselves reduced to the lowest stages of misery and emaciation by famine, attended with various frightful forms of disease.

On the 14th of January Dr. Kane congratulated himself that *in five more days* the mid-day sun would be only "*eight degrees below the horizon.*" On the 9th of February he wrote in his journal: "It is enough to solemnize men of more joyous temperament than ours has been for some months. We are contending at odds with angry forces close around us, without one agent or influence within eighteen hundred miles whose

sympathy is on our side." There were no star observations this winter; the observatory had become the mauscleum of the two of the party who had succumbed after the excursion in the snow-drift. In the beginning of March every man on board was tainted with scurvy; and often not more than three were able to make exertion in behalf of the rest. On the 4th of the month the last remnant of fresh meat was doled out, and the invalids began to sink rapidly. Their lives were only saved by the success of a forlorn-hope excursion of Hans to the remote Esquimaux hunting-station Etah, seventy-five miles away, whither he went in search of walrus.

On one occasion the adventurers killed a bear that had come with its cub, pressed by extreme hunger, close to the brig. It is painful to read the details of the struggle, from the wonderful attachment shown by the mother to its cub, and by the latter to its parent, to whom it always clung, even in death. But the men's lives were valuable; and it was thought excusable to kill two bears when the glaucous gulls were seen gobbling up young eider-ducks in the face of their distracted mothers by mouthfuls. Dr. Kane was the only person who would eat rats. He attributes his comparative immunity from scurvy to "rat-soup." Among the Arctic dainties which seem most to have excited his gastronomic enthusiasm was frozen walrus-liver, eaten raw.

Having no fuel, they were now reduced to the Esquimaux system of relying on lamps for heat; beds and bedding hence became black with soot, and their faces were begrimed with fatty carbon. The journal is now little more than a chronicle of privations and sufferings, interspersed with extraordinary efforts to keep up communications with the Esquimaux. It is, without compar-

ison, the most painfully interesting record of experience in wintering in the far north that has ever yet been published. In the midst of their troubles two of the men tried to desert, but only one — Godfrey — succeeded. He returned, strange to say, on the 2d of April, with food, in a sledge, but would not himself quit the Esquimaux. Under a misapprehension that he had robbed Hans, one of the hunters, of his sledge and dogs, his life was near being sacrificed by the commander from whom he had deserted.

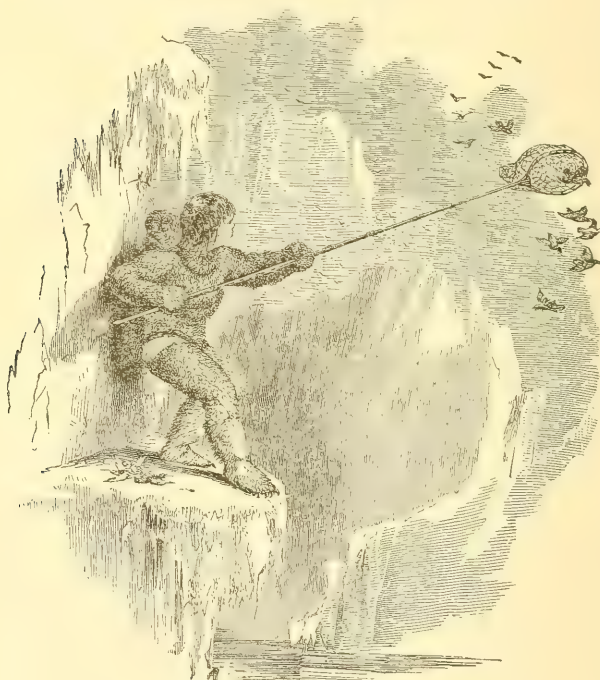
The abandonment of the brig was now resolved on. Before spring could be welcomed, preparations had been going on for some time for a sledge and boat escape from their long imprisonment. The employment thus given to the men exerted a wholesome influence on their moral tone, and assisted their convalescence. They had three boats, and they all required to be strengthened. There was clothing, bedding, and provision-bags, to make. The sledges had to be prepared. The 17th of May was appointed for the start. The farewell to the ship was most impressive. Prayers were read, and then a chapter of the Bible. The flags were then hoisted and hauled down again, and she was left alone in the ice. Godfrey had, by this time, it is to be observed, rejoined the ship; so the party consisted altogether of seventeen, of whom four were unable to move.

The collections of natural history the party were reluctantly compelled to leave behind, and part of the apparatus for observations, as well as the library of the commander, and the books furnished by the government and Mr. Grinnell for the use of the vessel. Nothing was retained but the documents of the expedition.

At Etah the Esquimaux settlement were found "out on the bare rocks," enjoying the plenty which spring



had brought. "Rudest of gypsies, how they squalled and laughed, and snored, and rolled about! Some were sucking bird-skins; others were boiling incredible numbers of auks in huge soapstone pots; and two youngsters, crying, at the top of their voices, 'Oopegsoak! oopegsoak!' were fighting for an owl.



ESQUIMAUX BOY CATCHING AUKS.

"There was enough to make them improvident. The little auks were breeding in the low cones of rubbish under the cliffs in such numbers that it cost them no more to get food than it does a cook to gather vegetables. A boy, ordered to climb the rocks with one of

their purse-nets of seal-skin at the end of a narwhal's tusk, would return in a few minutes with as many as he could carry."

Up to the 23d the progress of Dr. Kane's party was little more than a mile a day. The housed boats luckily afforded tolerably good sleeping-berths at night. On the 5th of June, Ohlsen injured himself so in an attempt to rescue a sledge from falling into a tide-hole, that he died three days afterwards.

"Still passing slowly on, day after day, — I am reluctant," writes Dr. Kane, "to borrow from my journal the details of anxiety and embarrassment with which it abounds throughout this period, — we came at last to the unmistakable neighborhood of open water." This was off Pekintlek, the largest of the Littleton Island group.

On Tuesday, the 19th of June, after a long farewell given to their long-trying friends, the Esquimaux of Etah, who had brought them frequent supplies of birds, and aided them in carrying their provisions and stores, they put to sea, and, the very first day's navigation, one of the boats swamped. They spent the first night in an inlet in the ice, and on the 22d reached Northumberland Island in a snow-storm. Here they got fresh provisions. They crossed Murchison Channel on the 23d, and encamped for the night on the land-floe at the base of Cape Parry — a hard day's travel, partly by tracking over ice, partly through tortuous and zig-zag leads. So it was for many successive days. One day favorable, with open leads of water; another, slow and wearisome, through alternate ice and water. Then the floe would break up and carry them resistlessly against the rocks. Three long days they passed in a cavern of rock and ice, in which, however, they found plenty of birds' eggs.

On the 11th they had doubled Cape Dudley Digges.

and plants, and birds, and birds' eggs, became more common. They spent a week to regain strength at so productive a spot, which they designated as "Providence Halt." At the Crimson Cliffs they again got a plentiful supply of birds. On the 21st of July they reached Cape York, and made immediate preparations for crossing Melville Bay, which was accomplished with great labor and suffering. Once more they were nearly starving, when a great seal came providentially to their succor. Their feet were so swollen that they were obliged to cut open their canvas boots. The most unpleasant symptom was that they could not sleep. On the 1st of August they sighted the Devil's Thumb. Hence they fetched the Duck Islands, and, passing to the south of Cape Shackleton, landed on *terra firma*. Two or three days more, and they were under the shadow of Karkamoot.

"Just then a familiar sound came to us over the water. We had often listened to the screeching of the gulls, or the bark of the fox, and mistaken it for the 'Huk' of the Esquimaux; but this had about it an inflection not to be mistaken, for it died away in the familiar cadence of a 'halloo.'

"'Listen, Petersen! Oars—men? What is it?' and he listened quietly at first, and then, trembling, said, in a half-whisper, 'Dannemarkers!'"

It was the Upernavik oil-boat, and the next day they were at Upernavik itself, after being eighty-four days in the open air. They could not remain within the four walls of a house without a distressing sense of suffocation.

From Dr. Kane's report to the Navy Department we quote the summing up of the results of the expedition. They embrace :

"1. The survey and delineation of the north coast of Greenland to its termination by a great glacier.

"2. The survey of this glacial mass, and its extension northward into the new land named Washington.

"3. The discovery of a large channel to the north-west, free from ice, and leading into an open and expanding area, equally free. The whole embraces an iceless area of four thousand two hundred miles.

"4. The discovery and delineation of a large tract of land, forming the extension northward of the American continent.

"5. The completed survey of the American coast to the south and west, as far as Cape Sabine; thus connecting our survey with the last determined position of Captain Inglefield, and completing the circuit of the straits and bay heretofore known at their southernmost opening as Smith's Sound."

The view of the open sea referred to was obtained by William Morton, from a precipitous headland, — the furthest point attained by the party, in latitude  $81^{\circ} 22'$  N., and longitude  $65^{\circ} 35'$  W., at an altitude of five hundred feet above the sea. The reasons assigned by our author for regarding it an iceless open sea are the following:

"1. It was approached by a channel entirely free from ice, having a length of fifty-two and a mean width of thirty-six geographical miles.

"2. The coast-ice along the water-line of this channel had been completely destroyed by thaw and water-action; while an unbroken belt of solid ice, one hundred and twenty-five miles in diameter, extended to the south.

"3. A gale from the north-east, of fifty-four hours' duration, brought a heavy sea from that quarter, without disclosing any drift or other ice.

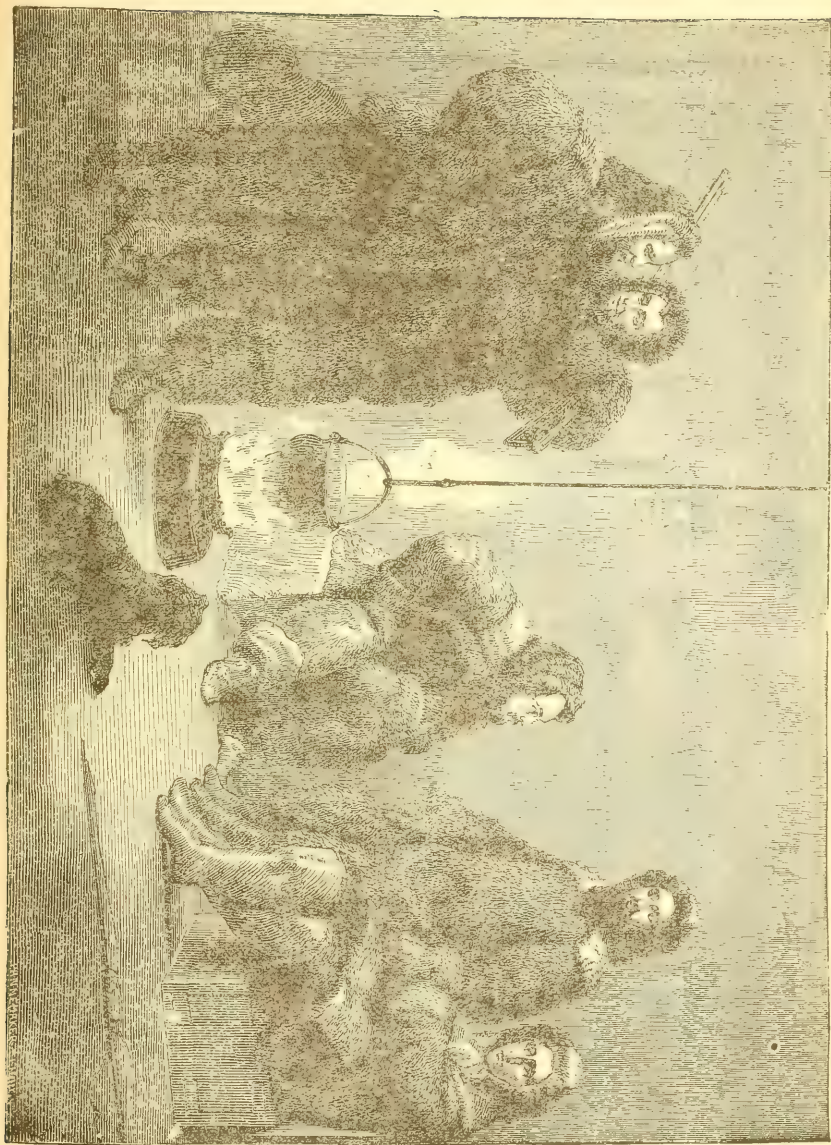
"4. Dark *nimbus* clouds and water-sky invested the north-eastern horizon.

"5. Crowds of migratory birds were observed thronging its waters."

There is much in Dr. Kane's wonderful narrative to remind the reader of the story of old William Barentz, who, two hundred and fifty-nine years ago, wintered on the coast of Nova Zembla. His men, seventeen in number, broke down during the trials of winter, and three died, just as of the eighteen under Dr. Kane three had gone. Barentz abandoned his vessel, as the Americans abandoned theirs, took to his boats, and escaped along the Lapland coast to lands of Norwegian civilization. The Americans embarked with sledges and boats to attempt the same thing. They had the longer journey, and the more difficult one, before them. Barentz lost, as they did, a cherished comrade by the wayside. But one resemblance luckily does not exist: Barentz himself perished—Dr Kane lived to write an account of all that he suffered in a noble cause. No mere abstract of his narrative can give an idea of its absorbing interest.

His book is above all common praise, on account of the simple, manly, unaffected style in which the narrative of arduous enterprise and firm endurance is told. It is obviously a faithful record of occurrences, made by a man who was quite aware that what he had to tell needed no extraneous embellishment. There is, however, so much of artistic order in the mind of the narrator, that the unvarnished record has naturally shaped itself into a work of distinguished excellence upon literary grounds. The scenes which it describes are so vividly and vigorously brought before the reader, that there are few who sit down to the perusal of the narrative but will fancy, before they rise from the en







grossing occupation, their own flesh paralyzed by the cold one hundred degrees greater than frost, and their blood scurvy-filled by the four months' sunlessness.

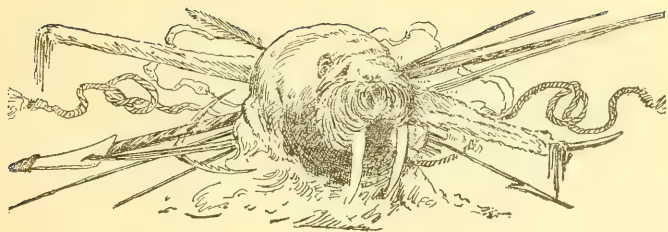
It is only just also to remark, that there is unmistakable evidence, in the pages of this interesting book, that the doctor was no less eminently gifted for the duties of his command than he has been happy in his relation of its history. Every step in his arduous path seems to have been taken only after the exercise of deliberately matured forethought. A few illustrations must be gleaned, from the many that are scattered through the pages of his journal, to direct attention to this honorable characteristic. When the doctor had formed his own resolution to remain by the brig through the second winter, he made the following entry, under the date of August 22 : " I shall call the officers and crew together, and make known to them, very fully, how things look, and what hazards must attend such an effort as has been proposed among them. They shall have my views unequivocally expressed. I will then give them twenty-four hours to deliberate ; and, at the end of that time, all who determine to go shall say so in writing, with a full exposition of the circumstances of the case. They shall have the best outfit I can give, an abundant share of our remnant stores, and my good-by blessing."

On the 6th of April the Esquimaux auxiliary, Hans, was gone to Etah, with a sledge, to seek a supply of walrus-meat, when, as we have already stated, William Godfrey deserted from the ship ; and, the commander suspected, with some sinister design upon Hans and the sledge. Dr. Kane then wrote : " Clearly, duty to this poor boy calls me to seek him ; and, clearly, duty to these dependent men calls me to stay. Long and uncomfortably have I pondered over these opposing calls, but at last have come to a determination. Hans

was faithful to me ; the danger to him is imminent, the danger to those left behind only contingent upon my failure to return. With earnest trust in that same Supervising Agency which has so often before, in graver straits, interfered to protect and carry me through, I have resolved to go after Hans."

The Esquimaux lad was proof both against the violence and the seduction of the deserter. The commander found him invalided, but safe, at Etah. Hans, however, did not return to Fiskernaes with the expedition. His fate is involved in romance. Venus Victrix has a representative even in frost-land. The reader must go to the pages of Dr. Kane to know what became of Hans.

When the preparations for the final escape were under consideration, the following record was made in the doctor's journal: "Whatever of executive ability I have picked up during this brain-and-body-wearying cruise warns me against immature preparation or vacillating purposes. I must have an exact discipline, a rigid routine, and a perfectly thought-out organization. For the past six weeks I have, in the intervals between my duties to the sick and the ship, arranged the schedule of our future course ; much of it is already under way. My journal shows what I have done, but what there is to do is appalling." Appalling as it was, the heroic man who had to look the necessity in the face was equal to the position. There can be no doubt that it was "*the exact discipline, the rigid routine, and the perfectly thought-out organization,*" which restored the sixteen survivors of the expedition to civilization and their homes.



## CHAPTER XX.

ACTION OF CONGRESS. — RELIEF EXPEDITION IN SEARCH OF DR. KANE. —  
HARTSTEIN THE COMMANDER. — ICE ENCOUNTERS. — SEARCHES. — THE  
LOST FOUND. — NARRATIVE BY JOHN K. KANE. — ICEBERGS. — BIRDS. —  
ESQUIMAUX. — THE MEETING. — THE RESOLUTE. — FOUND BY AMERICAN  
WHALERS. — INTERNATIONAL COURTESIES.

THE apprehensions caused at home, by the detention of Dr. Kane and his party, produced a resolution of Congress, approved February 3d, 1855, authorizing the Secretary of the Navy to despatch a suitable steamer and tender for the relief of the absent voyagers. The bark *Release* and the steamer *Arctic* were accordingly procured and equipped, Lieut. Hartstein having been appointed to the command. He was accompanied by a brother of Dr. Kane. They reached Lively, Isle of Disco, Greenland, July 5th, 1855, having encountered the first iceberg in latitude  $51^{\circ} 30'$  north, longitude  $51^{\circ} 40'$  west. With seaman-like generosity, Hartstein, in his letter from this place to the Secretary of the Navy, says: "To avoid further risk of human life, in a search so extremely hazardous, I would suggest the impropriety of making any efforts to relieve us if we should not return; feeling confident that we shall be able to accomplish all necessary for our own release, under the most extraordinary circumstances."

Entering the closely-packed floe of Melville Bay, the



relief vessels forced a passage into the North Water on the morning of the 13th of August. Passing in good view of the coast from Cape York to Wolstenholme Island, Hartstein, in the steamer, examined Cape Alexander and Sutherland Island. Passing on to the most north-western point in sight (Point Pelham), he noticed a few stones heaped together, which, on examination, gave assurance of Kane's having been there; but no clue was afforded. Pushing on to latitude  $78^{\circ} 32'$  north, the steamer was opposed by a solid, hummocky field of very heavy ice, to which no limit was visible, interspersed as it was with bergs, all drifting to the southward. Taking now a retrograde course, they examined Cape Hatherton and Littleton Island, and finally took refuge under a projecting point, some fifteen miles north-west of Cape Alexander. Here they were startled by the hail of human voices. Going on shore, they found a party of Esquimaux, and among them various articles that must have belonged to Dr. Kane and his men. An examination of the most intelligent of the natives led to the understanding that Dr. Kane, having lost his vessel somewhere to the north, had been at that spot, with his interpreter (Carl Petersen), and seventeen others, in two boats and a sled, and, after remaining ten days, had gone south to Upernavik.

After some more reconnoitring of the coast, Hartstein, in the Arctic, found himself firmly beset by the ice, and thought, for a time, he was in winter quarters; but, after twenty-four hours' heavy battering, he got out. After having made nearly the whole circuit of the northern part of Baffin's Bay, with the exception of a deep ice-locked indentation between Capes Cowbermere and Isabella, he returned, and, in company with the Release, examined Possession Bay and Pond's Bay, firing guns, burning blue-lights, and throwing up rock-

ets. He now determined to proceed to Upernavik, and, if he did not there find the missing party, to proceed north again, and winter in the ice. This was soon found to be unnecessary. At Lively the missing party were received with many welcomes on board the vessels sent for their relief. We will leave it to Mr. John K. Kane, the brother of the doctor, to narrate, in his animated account of the relief expedition, the manner and the incidents of the encounter. The article, portions of which we quote, was originally contributed to *Putnam's Magazine*; and conveys, in a novel and spirited style, much interesting description and information in regard to the latitudes visited.

At Etah the relief expedition came in contact with the Esquimaux who had befriended Dr. Kane; and Mr. J. K. Kane selected one of the most forward and intelligent of the natives, a boy named Mayouk, and endeavored by signs to get some information from him. We present the following in Mr. Kane's own words:

"Mayouk was very quick in understanding us, and equally ready in inventing modes of conveying intelligence. Lead-pencil and paper were called into requisition. I took out my note-book, drew a rough sketch of a brig, and showed it to him. He, at once, said 'Dokto Kayen,' and pointed to the north. I then drew a reversed sketch, and pointed south. But Mayouk, shaking his head, began to sway his body backward and forward, to imitate rowing; then said Dokto Kayen again, and pointed south. On this, I drew a whole fleet of boats, and invited him to point out how many of these he referred to. He took the pencil from my hand, and altered the sterns of two into sharp-pointed ones, and then held up two fingers, to indicate that there were two of such. I now drew carefully two whale-boats; he made signs of approval, as much as to

say that was *the* thing ; and, incontinently squatting down, imitated the voice and gestures of a dog-driver, cracking an imaginary whip, and crying hup-hup-hup, at the top of his voice. After which performance, he laughed immoderately, and, again pointing south, said Dokto Kayen.

"I was not certain as to his meaning ; but, on my drawing a picture of a dog-team, he went through the whole performance afresh, and showed the most extravagant signs of delight at being understood. We found out how many dog-sledges and how many men there were of the doctor's party, in the same manner. We examined several other natives separately, and they all told the same story ; nor could we confuse them as to the number of men and boats ; they were all clear on that head. Nineteen, they made it, neither more nor less. We tried our best to make them say that the boats had gone north, and the vessel south ; but without success. Mayouk, on one occasion, being hard pressed, stopped his ears, so as, at least, to secure himself from being supposed to assent to what he had not learning or language enough to controvert.

"At length, a bright thought struck him. He ran down to the beach, and got two white stones ; laid them on the ground, and, pointing to the floating masses of ice in the bay, signified to us that these represented the ice. Next, he took a common clay pipe of Mr. Lovell's, and, pointing to the north, said, vomiak sooak, or big ship, 'vomiak sooak, Dokto Kayen.' He next pushed the pipe up between the pebbles, and then pressed them together till the pipe was crushed. Lastly, he pointed to the south, and began imitating the rowing of a boat, the cracking of whips, and the hup-hupping of a dog-driver, vociferating, at intervals, 'Dokto Kayen, he ! he ! he !' We tried our best to find out how long

it had been since the Dokto Kayens had left them, for it was evident that this was their name for the whole party ; but we could not make them understand. They would only tell us that their guests had been with them for some time. This they did by pointing to the south, and then following the track of the sun till it reached the north ; then, after stretching themselves out on the ground, and closing their eyes, as if in sleep, would again point to the south, rise up, go down to the lake and pretend to wash their faces. The gesture lay in pretence only, however, for they seemed to regard the washing of the Dokto Kayens as a remarkable religious observance. It certainly was not one which had been practically ingrafted into their own formulary of good works. These unsophisticated children of the frost-land never wash off dirt, for the simple reason that of dirt, as such, they have no conception or idea.

“Improvvidence is another trait of these ‘fresh children of impulse.’ We were at their village as late as the 19th of August. Yet, although the auks were flying round them in such quantities that one man could have been able to catch a thousand an hour, they had not enough prepared for winter to last two days. They were all disgustingly fat, and always eating, — perhaps an average ration of eighteen pounds per diem, — yet they had lost seven by starvation during the last winter, though relieved, as far as we could make it out, by the Dokto Kayens.

“They suffer dreadfully from cold, too ; yet there is an abundance of excellent peat, which they might dig during the summer. They know its value as fuel, and are simply too lazy to stack it. The little auk, which forms their principal food, may be said also to be their only fuel. Indeed, it quite fills the place which the seal holds among the more southern Esquimaux. Their

clothes are lined with its skins, they burn the fat, and, setting aside the livers and hearts, to be dried, and consumed as *bonbons* during the winter, they eat the meat and intestines cooked and raw, both cold and at blood heat.

“They are very hospitable ; the minute we arrived, all hands began to catch birds and prepare them for us. Tearing off the skins with their teeth, they stripped the breasts to be cooked, and presented us with the juicy entrails and remaining portions to eat raw, and stay our appetites. The viands did not look inviting to us, who had witnessed their preparation ; but they appeared so hurt at our refusing to eat, that we had to explain that it was not cooked but raw birds we wanted. This was satisfactory. They set out at once to catch some for us ; and in a few moments three of them were on their way down to our boat loaded with birds.

“Though all the natives had told us that Dr. Kane’s party had gone southwards after leaving their settlement, still we were far from certain that they had continued their progress in that direction, and Captain Hartstein was for some time in doubt as to the course which we ought to pursue ; whether we should return at once to Upernavik by our old track, or run across the bay and examine its western coast. He finally determined on the latter, believing that, if Dr. Kane and his party had gone down the eastern coast, they would by this time either have been lost in Melville Bay, or safely arrived at Upernavik ; while, on the contrary, if they had tried to reach the English fleet in Lancaster Sound, being ignorant of its desertion, they might be there now in a starving condition.

“We reached Cape Alexander without any incident worthy of note, and, after searching its barren rocks to no purpose, built a cairn, and in it deposited the record



of our want of success. We next ran down to Sutherland Island, took up our now useless flag-staff, and tore down the cairn we had placed there on our way up. There was a poor little white fox watching us from the rocks above, while we were at work, evidently wondering what it all meant. He came so close that we could have knocked him down with a boat-hook, but we let him alone; we were not short of provisions, and had no time to convert him into a specimen.

"We pushed on through rain and fog to Hakluyt Island, where we found our comrades of the Release, and spent a few hurried hours in their company.

"The *red snow*, that Dr. Kane has described in his narrative, was abundant here; and wherever between the ledges of the rock there was a chance for soil, a tiny little horseradish sprang up ambitiously through the frost, with leaves no bigger than your thumb-nail. The miniature plant, flower, root, and all, might have filled a very moderate tea-cup.

"It is hardly worth while to tell of our efforts to find Captain Inglefield's Esquimaux settlement in Whale Sound. It was the old story of fog and drizzle, ice and sleet. We gave it up, and, taking the Release in tow, bent our course for Lancaster Sound.

"But the ice, the everlasting ice! We were more than two hundred miles off when it caught us. It was heavier than any we had seen even in Melville Bay. For some days it held us like flies in amber, in spite of sails, with now and then a puff to fill them, and all the steam that Newell could raise in his boiler. It was, indeed, a mercy that a gale caught us at last, or we might have been there still. We drove before it, the ice keeping us company, as if loth to lose us, and, finding that we could not reach Cape Isabella, made a détour to Possession Bay.

"Pond's Bay, as it is called, seemed to all of us nothing else but an extension of Admiralty Inlet. We kept along its north coast for thirty-five miles, and could see, perhaps, forty miles further, but without finding its westernmost shore. A visit to an Esquimaux village, some twenty miles up the bay, was the only incident. The men, with a single exception, were out on their hunting-parties; but the women were there, as communicative in their unknown dialect as any we had met of the grosser sex. They were certainly no beauties, and their costume was a little extravagant even for the Esquimaux fashions, as we had seen them. They had their faces tattooed with lampblack, in a set of dotted lines, radiating from the corners of the mouth; and their very long wide boots were hitched, awkwardly enough, by a loop to the waistband of their seal-skin trousers.

"They appeared to be of a superior race to the Greenland natives. They were larger and stronger, their kayaks were better built, and they had much more roomy tents.

"The whole of Pond's Bay showed one dreary, inhospitable coast-line. We were all of us glad when our commander gave the order to make for the eastern coast of Baffin's Bay.

"We had an eight-knot breeze, and were not more than two hundred miles from Upernavik. There was every chance of the wind continuing, so that we confidently expected to reach that port in the course of the week. We thought we were to the southward of the pack; and the heavy sea, which made us all sea-sick after our long exemption from rough water, strengthened this conviction. But we were mistaken. The very next day it was before us, an impenetrable barrier. There was no help for it; we had to run further to the south—how much further it was hardly worth while to

guess. It was no very difficult matter, you would think, to run along the edge of the ice till we came to the end of it, and then run across. But this ice had all the irregularities of a coast: large inlets and bays running into it, and capes projecting just where you do not expect to meet them; and, over and over again, after running for a whole day, just as we were sure we had reached its southern boundary, we would find ourselves in a cul-de-sac, with the ice on both sides of us. At last we came to a dead halt. We were fairly in the pack—it was before us, behind us, and on both sides of us.

“Day after day passed, and we found we were drifting to the south, fairly glued in. There are only two incidents that I speak of in or about this pleasant little travel. One was just as it began. It was a meeting with an ancient whaler, the *Eclipse*, of Peterhead, with a jolly old Captain Gray, who insisted on all hands making a trial of a regular Scotchman's hospitality, and tossed half a dozen hams after us into the boat, when we refused to take the half of his cabin stores. The other was the gale that ended it. It was less pleasant at the time; but, like some other things that I have met with in this world, its effects were better than its promise. What a night it was! The bark ran into an iceberg, and came very near being lost. She fired thirteen guns for assistance, but the crashing and grinding was so tremendous that, though we were not three quarters of a mile off, and the wind was blowing directly towards us, we did not hear one of them. I never shall forget the melancholy figure she presented on joining us next morning. We felt quite a glow of sympathy for the poor *Release*, till Captain Hartstein's hailing our steamer with the information that our cutwater looked

like a prize-fighter's nose. We then remembered that we, too, had a night of it.

"After this gale we had little or no more trouble with the ice; one or two trifling detentions of a few days brought us to the open water. We had drifted so far to the south that Lievely was nearer than Upernavik, and Captain Hartstein determined to put in there. We had a heavy gale the night after we left the ice; but so glad were we all to get clear of it, that I heard no complaints about rough weather. It cleared away beautifully towards morning, and we were all on the deck, admiring the clear water, and the fantastic shapes of the water-washed icebergs. All hands were in high spirits; the gale had blown in the right direction, and in a few hours we should be in Lievely. The rocks of its land-locked harbor were already in sight. We were discussing our news by anticipation, when the man in the crow's nest cried out, 'A brig in the harbor!' and the next minute, before we had time to congratulate each other on the chance of sending letters home, that she had hoisted American colors—a delicate compliment, we thought, on the part of our friends, the Danes.

"I believe our captain was about to return it, when, to our surprise, she hoisted another flag, the veritable one which had gone out with the *Advance*, bearing the name of Mr. Henry Grinnell. At the same moment, two boats were seen rounding the point, and pulling towards us. Did they contain our lost friends? Yes; the sailors had settled that. 'Those are Yankees, sir; no Danes ever feathered their oars that way,' said an old whaler to me.

"For those who had friends among the missing party, the few minutes that followed were of bitter anxiety; for the men in the boats were long-bearded and weather-

beaten ; they had strange, wild costumes ; there was no possibility of recognition. Dr. Kane, standing upright in the stern of the first boat, with his spy-glass slung round his neck, was the first identified ; then the big form of Mr. Brooks ; in another moment all hands of them were on board of us.

“It was curious to watch the effects of the excitement in different people, — the intense quietude of some, the boisterous delight of others ; how one man would become intensely loquacious, another would do nothing but laugh, and a third would creep away to some out-of-the-way corner, as if he were afraid of showing how he felt. How hungry they all were for news, and how eagerly they tore open the home letters ; most of them, poor fellows, had pleasant tidings, and all were prepared to make the best of bad ones. We were in the harbor, with a fleet of kayaks dancing in welcome around and behind us, before the greetings were half ended, for they repeated themselves over and over again.

“Our old friend, Mr. Olrik, was with the new comers, and as happy as the rest. His hospitality, when we reached the shore, was absolutely boundless ; and his house and table were always at our service. Altogether, I never passed three more delightful days than those last days at Lievely. Balls every night ; feasts and junketings every day ; and, pleasantest of all, those dear home-like tea-tables, with shining tea-urn and clear, white sugar, round which we sat, waiting for the water to boil, and talking of Russia and the Czar, and the world outside the Circle ; while Mrs. Olrik would look up from her worsted-work, and the children pressed round me to see the horses and dogs I was drawing for them. It was enough to make one forget his red flannel shirt and rough Arctic rig ; Melville Bay and the pack



seemed fables. The Danish doctor, too, arrived from Fiskernaes, a very intelligent gentleman, and we talked away bravely to him in bad Latin. He brought us a present of reindeer-meat, — a new dish for some of us, tasting like a cross between Virginia mountain mutton and our Pennsylvania red deer.

But our stay in Lievely ended. The propeller got up steam, and, taking our bark and the Danish brig Marianne in tow, steamed out of the harbor. All the inhabitants of the town were on the shore to see the last of us. Our visit had been as memorable an incident to them as to ourselves. Where ten dollars is a large marriage dower, Jack's liberality of expenditure seemed absolutely royal. There were moistened eyes among them, for they are essentially kind-hearted; and even the roar of our cannon, in answer to the Danish salute, though it resounded splendidly among the hills, was scarcely heeded, as they stood, with folded arms, watching us disappear in the distance. We carried Mr. Olrik quite out to sea before we bade him good-by; and it was not until the next morning that the Marianne cast loose.

“We reached home without any incident worthy of note, except that the Esquimaux dogs we had on board did nothing but howl during the whole voyage, — an amiable peculiarity, which still characterizes the single specimen of which I am at present the happy possessor. There he goes — I hear him now.”

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The return of Hartstein with the survivors of Kane's expedition closed for a time the record of the search for Sir John Franklin.

Never was there such a disastrous state of things in the Arctic regions: six ships left in the ice! The Investigator at Mercy Bay, the Resolute and Intrepid

at Melville Island, the Assistance and Pioneer in Wellington Channel, and the Advance in Smith's Sound, to be added to the Erebus and Terror, which there was reason to believe had been left years before somewhere in the strait of James Ross. The Arctic archipelago was studded with abandoned ships!

None could have imagined that any of these gallant ships would ever carry sail again; or that we might not truly say of each of them, in the words of Dr. Kane, "The ice is round her still."

But of one of these vessels there is a further story to tell; and, as it recounts a kindly interchange of courtesies between the two nations which vied with each other in heroic, though fruitless efforts, to rescue the missing navigators, it will form a pleasant interlude in our narrative.

In the month of September, 1855, the whaler George Henry, Captain Buddington, of New London, Connecticut, was drifting along, beset by the ice, in Baffin's Bay, when one morning the captain, looking through his glass, saw a large ship some fifteen or twenty miles distant, apparently working her way towards him. Day after day, while helplessly imprisoned in the pack, he watched her coming nearer and nearer. On the seventh day, the mate, Mr. Quail, and three men, were sent to find out what she was.

After a hard day's journey over the ice, — jumping from piece to piece, and pushing themselves along on isolated cakes, — they were near enough to see that she was lying on her larboard side, firmly imbedded in the ice. They shouted lustily, as soon as they got within hailing distance; but there was no answer. Not a soul was to be seen. For one moment, as they came alongside, the men faltered, with a superstitious feeling, and hesitated to go on board. A moment after, they had

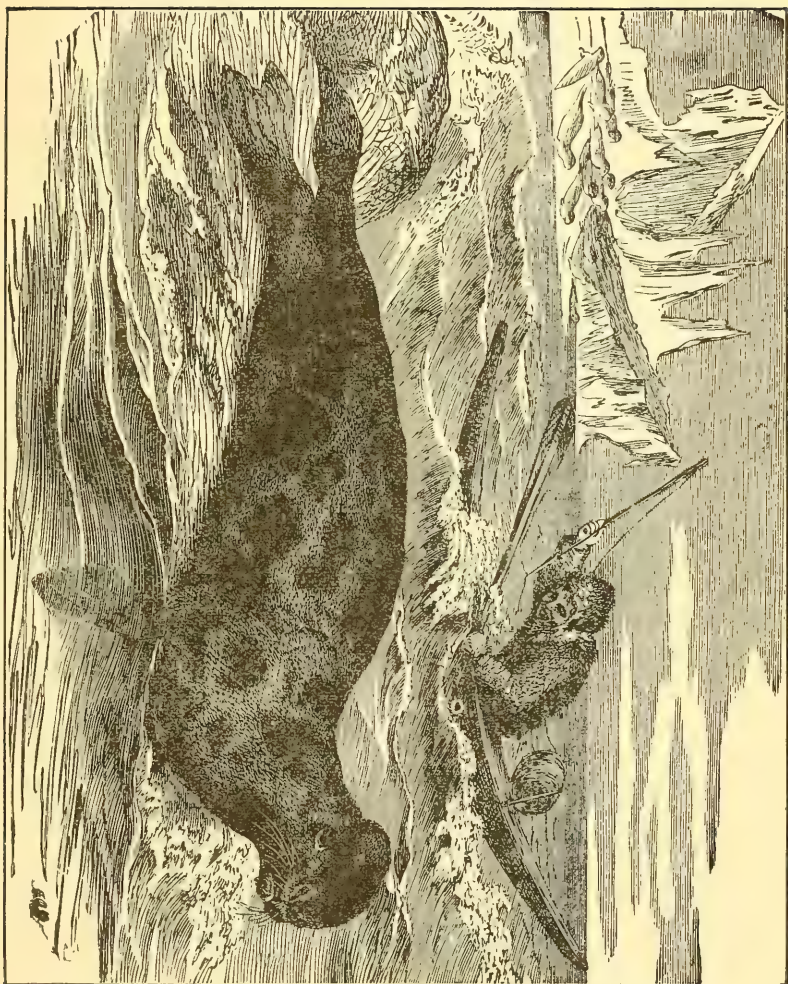
climbed over the broken ice, and stood on deck. Every thing was stowed away in order — spars hauled up and lashed to one side, boats piled together, hatches calked down. Over the helm, in letters of brass, was inscribed the motto “England expects every man to do his duty.” But there was no man to heed the warning.

The whalemén broke open the companion-way, and descended into the cabin. All was silence and darkness. Groping their way to the table, they found matches and candles, and struck a light. There were decanters and glasses on the table, chairs and lounges standing around, books scattered about — everything just as it had been last used. Looking curiously from one thing to another, wondering what this deserted ship might be, at last they came upon the log-book. It was endorsed, “Bark Resolute, 1st September, 1853, to April, 1854.” One entry was as follows: “H. M. S. Resolute, 17th January, 1854, nine A. M. — Mustered by divisions. People taking exercise on deck. Five P. M. — Mercury frozen.”

This told the story. It was Captain Kellett’s ship, the Resolute, which had broken away from her icy prison, and had thus fallen into the hands of our Yankee whalemén.

While the men were making these discoveries, night came on, and a gale arose. So hard did it blow that they were compelled to remain on board, and for two days these four were the whole crew of the Resolute. It was not till 19th September that they returned to their own ship, and made their report.

All these ten days, since Captain Buddington had first seen her, the vessels had been nearing each other. On the 19th he boarded her himself, and found that in her hold, on the larboard side, was a good deal of ice. Her tanks had burst, from the extreme cold; and she was full of water, nearly to her lower deck. Everything



HARPOONING THE CRESTED SEAL.





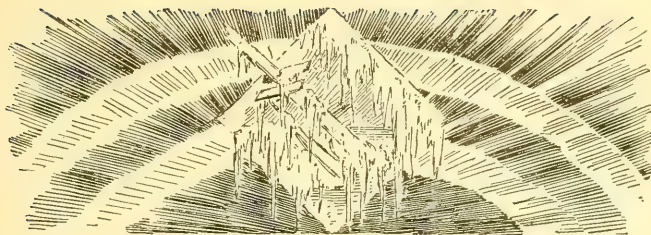
that could move from its place had moved. Everything between decks was wet; everything that would mould was mouldy. "A sort of perspiration" had settled on the beams and ceilings. The whalem<sup>e</sup>n made a fire in Kellett's stove, and soon started a sort of shower from the vapor with which it filled the air. The Resolute had, however, four fine force-pumps. For three days the captain and six men worked fourteen hours a day on one of these, and had the pleasure of finding that they freed her of water,—that she was tight still. They cut away upon the masses of ice; and on the 23d of September, in the evening, she freed herself from her encumbrances, and took an even keel. This was off the west shore of Baffin's Bay, in latitude 67°. On the shortest tack, she was twelve hundred miles from where Kellett left her.

There was work enough still to be done. The rudder was to be shipped, the rigging to be made taut, sail to be set;—and it proved, by the way, that the sail on the yards was much of it still serviceable, while a suit of new linen sails below were greatly injured by moisture. In a week more, she was ready to make sail. The pack of ice still drifted with both ships; but, on the 21st October, after a long north-west gale, the Resolute was free.

Capt. Buddington had resolved to bring her home. He had picked ten men from the *George Henry*, and with a rough tracing of the American coast, drawn on a sheet of foolscap, with his lever watch and a quadrant for his instruments, he squared off for New London. A rough, hard passage they had of it. The ship's ballast was gone, by the bursting of the tanks; she was top-heavy and undermanned. He spoke a British whaling-bark, and by her sent to Captain Kellett his epaulets, and to his own owners news that he was coming. They had heavy gales and head winds, and

were driven as far down as the Bermudas. The water left in the ship's tanks was brackish, and it needed all the seasoning which the ship's chocolate would give to make it drinkable. "For sixty hours at a time," says the captain, "I frequently had no sleep ;" but his perseverance was crowned with success, at last, and, on the night of the 23d of December, he made the light off the harbor from which he sailed, and on Sunday morning, the 24th, dropped anchor in the Thames, opposite New London, and ran up the British ensign on the shorn masts of the Resolute.

Her subsequent history is fresh in the minds of our readers. The British government generously released all their claim in favor of the salvors. Thereupon, Congress resolved that the vessel should be purchased and restored as a present to her majesty from the American people. This design was fully carried out. The Resolute was taken to the dry-dock in Brooklyn, and there put in complete order. Everything on board — even the smallest article — was replaced as nearly as possible in its original position ; and, at length, having been manned and officered from the United States navy, and placed under the command of Captain Hartstein, the Resolute, stanch and sound again, from stem to stern, "with sails all set and streamers all afloat," once more shaped her course for England, where she arrived in December, 1856, and was presented to Queen Victoria with appropriate ceremonies



## CHAPTER XXI.

LADY FRANKLIN NOT DISHEARTENED.—VOYAGE OF THE FOX.—MORE RELICS DISCOVERED.—A RECORD FOUND.—THE MYSTERY SOLVED.—VOYAGE OF FRANKLIN.—CONCLUSION.

NOTWITHSTANDING the discouraging nature of the discoveries made by Rae and Anderson, the opinion was entertained in England that some members of Franklin's party might still be living. The propriety of sending out further expeditions was discussed in the public journals, and found many zealous advocates. A petition, headed by Lady Franklin, and signed by numerous influential persons, including some distinguished Arctic officers, was presented to the British Admiralty, urging it to make one final and exhaustive search. But the response was unfavorable. The government had decided that the fate of Franklin and his men was sufficiently ascertained, and that any attempt at further discoveries would be a useless risk of life and money.

Having appealed in vain to the government, the indefatigable Lady Franklin determined to prosecute the search with her own resources. A small screw steamer, called the Fox, with three masts, schooner-rigged, was accordingly fitted out at her expense, manned by twenty-five men, and placed under the command of Capt. F. L. M'Clintock, an officer already distinguished in Arctic adventure. She sailed from Aberdeen, Scotland, early in July, 1857, and on the 25th of the same month was off Baal's River, Greenland, from which place Capt. M'Clintock sent home his first despatches to Lady

Franklin. After touching at Lively and Waigat Strait, the Fox reached Upernavik on the 6th of August, and having obtained a supply of coal, thirty dogs, and an Esquimaux driver, proceeded on her voyage. But on the 18th of August her progress was stopped by the ice in Melville Bay, from which time up to the 25th of April, 1858, she remained drifting in the pack. While thus beset she drifted up within twenty-four miles of Cape York, then far to the westward, and thence southward from lat.  $75\frac{1}{4}$  N. to  $63\frac{1}{2}$ —in all 1194 geographical miles. On the 28th of April she reached Holsteinborg, where Capt. M'Clintock, not disheartened by the failure of the first year's cruise, immediately made preparations to renew the attempt.

"On the 8th of May," says Capt. M'Clintock, in his official report, "our voyage was recommenced. Godhaven and Upernavik having been visited, Melville Bay was entered early in June, and we crossed to Cape York by the 26th. Here some natives were communicated with. They immediately recognized Mr. Petersen, our interpreter, formerly known to them in the Grinnell expedition under Dr. Kane. In reply to our inquiries for the Esquimaux dog-driver Hans, left behind from the Advance in 1855, they told us that he was residing at Whale Sound. Had he been there, I would most gladly have embarked him, as his longing to return to South Greenland continues unabated.

"It was not until the 27th of July that we reached Pond's Inlet, owing to a most unusual prevalence of ice in the northern portion of Baffin's Bay. Without steam power we could have done nothing. Here only one old woman and a boy were found, but they served to pilot us up the inlet for twenty-five miles, when we arrived at their village. For about a week we were in constant communication with these friendly people. They com-

municate overland every winter with the tribes at Igloodik. They all knew of Parry's ships having wintered there in 1822-3, and had heard of late years of Dr. Rae's visit to Repulse Bay ; but nothing whatever respecting the Franklin expedition had come to their knowledge, nor had any wrecks reached their shores within the last thirty years.

" Within Pond's Inlet the natives told us the ice decays every year, but, so long as any remains, whales abound. Several large whales were seen by us, and we found among the natives a considerable quantity of whalebone and many narwhal's horns, which they were anxious to barter for knives, files, saws, rifles, and wool. They drew us some rude charts of the inlet, showing that it expands into an extensive channel looking westward into Prince Regent's Inlet.

" We reached Beechey Island on the 11th of August, and landed a handsome marble tablet, sent by Lady Franklin, bearing an appropriate inscription to the memory of our lost countrymen in the Erebus and Terror. Having embarked some coals and stores, and touched at Cape Hotham, we sailed down Peel Strait for twenty-five miles on the 17th, but finding the remainder of this channel covered with unbroken ice, I determined to make for Bellot Strait.

" On the 19th August we examined into the supplies remaining at Port Leopold, and left there a whaleboat brought from Cape Hotham, to aid us in our retreat, should we be obliged eventually to abandon the Fox. Prince Regent's Inlet was unusually free from ice. Very little was seen during our run down to Brentford Bay, which we reached on the 20th of August.

" Bellot Strait, which communicates with the western sea, averages one mile in width, by seventeen or eighteen miles in length. At this time it was filled with



drift ice, but as the season advanced became perfectly clear. Its shores are in many places faced with lofty granite cliffs, and some of the adjacent hills rise 1600 feet; the tides are very strong, running six or seven knots at the springs. On the 6th of September, we passed through Bellot Strait without obstruction, and secured the ship to fixed ice across its western outlet. From here, until the 27th, when I deemed it necessary to retreat into winter quarters, we constantly watched the movements of the ice in the western sea or channel. In mid-channel it was broken up and drifting about; gradually the proportion of water increased, until at length the ice which intervened was reduced to three or four miles in width. But this was firmly held fast by numerous islets, and withstood the violence of the autumn gales. It was tantalizing beyond description thus to watch from day to day the free water, which we could not reach, and which washed the rocky shore a few miles to the southward of us.

"Our wintering position was at the east entrance of Bellot Strait, in a snug harbor, which I have named Port Kennedy, after my predecessor in these waters, the commander of one of Lady Franklin's former searching expeditions. Although vegetation was tolerably abundant, and our two Esquimaux hunters, Mr. Petersen, and several sportsmen, were constantly on the alert, the resources of the country during eleven and a half months only yielded us eight reindeer, two bears, eighteen seal, and a few water-fowl and ptarmigan."

During the winter, which was unusually cold and stormy, the following arrangements were made for carrying out the intended plan of search. To Lieut. Hobson was allotted the search of the western shore of Boothia to the magnetic pole, and from Gateshead Island westward to Wynniatt's furthest Capt. Allen

Young, sailing-master, was to trace the shore of Prince of Wales' Land, from Lieut. Browne's furthest, and also to examine the coast from Bellot Strait northward to Sir James Ross's furthest; while Capt. M'Clintock in person was to visit Marshal Island, and in so doing purposed to complete the circuit of King William's Island.

Hardly had the long darkness of the Arctic winter passed away, when, in spite of a fearful temperature of 71 degrees below freezing point, Captains Young and M'Clintock set out from the ship on preliminary journeys, with the view of making depots of provisions preparatory to the search above marked out. Capt. Young carried his depot across to Prince of Wales' Land, while M'Clintock, accompanied by Mr. Petersen, the interpreter, with two sledges drawn by dogs, went southward toward the magnetic pole. On the 28th of February the latter party reached a spot named Cape Victoria, on the west side of Boothia Felix. Here they met some natives. The poor creatures were at first very much alarmed, but became reassured by the conciliatory manners of Mr. Petersen. The fact of their having plenty of wood for sledges in their possession, convinced the gallant captain that they knew something of the ships he was in search of; and as soon as their confidence was gained, he obtained from them the information that many years previously a ship had been crushed by the ice off the northern point of a great island, which agreed with the position of King William's Island, but that all her people had landed in safety and gone away to the Great Fish River, and there died of starvation. The wood that had attracted M'Clintock's attention they had procured from a boat which the "starving white men" had left near the mouth of the Great River.

Such was their tale. It explained in a measure how a party of Europeans had reached Montreal Island, at

the entrance of the Great Fish River, as reported by Mr Anderson, after his journey down that stream in 1855; and it accounted, at any rate, for one of the two missing ships. We can, therefore, appreciate the anxiety with which the gallant leader of the little band on board the Fox, after remaining four days in communication with the Esquimaux, and procuring from them many relics, hastened back to his craft, and made ready to despatch the sledge parties on a search which subsequently proved so successful.

"On the 2d of April, 1859," says Capt. M'Clintock, "our long-projected spring journeys were commenced. Lieut. Hobson accompanied me as far as Cape Victoria. Each of us had a sledge drawn by four men, and an auxiliary sledge drawn by six dogs. This was all the force we could muster.

"Before separating we saw two Esquimaux families, living out upon the ice in snow huts, from whom we learned that a second ship had been seen off King William's Island, and that she drifted ashore in the fall of the same year. From this ship they had obtained a vast deal of wood and iron. I now gave Lieut. Hobson directions to search for the wreck, and to follow up any traces he might find upon King William's Island.

"Accompanied by my own party and Mr. Petersen, I marched along the east shore of King William's Island, occasionally passing deserted snow huts, but without meeting natives till the 8th of May, when, off Cape Norton, we arrived at a snow village containing about thirty inhabitants. They gathered about us without the slightest appearance of fear or shyness, although none had ever seen living white people before. They were most willing to communicate all their knowledge and barter all their goods, but would have stolen everything had they not been very closely watched. Many more

relics of our countrymen were obtained from these people ; we could not carry away all we might have purchased. They pointed to the inlet we had crossed the day before, and told us that one day's march up it, and thence four days overland, brought them to the wreck. None of them had been there since 1857-8, at which time they said but little remained, their countrymen having carried away almost everything.

"Most of our information was received from an intelligent old woman. She said it was in the fall of the year that the ship was forced ashore ; many of the white men dropped by the way as they went towards the Great River ; but this was only known in the winter following, when their bodies were discovered.

"They all assured us that we would find natives upon the south shore, at the Great River, and some few at the wreck ; but unfortunately this was not the case. Only one family was met with off Point Booth, and none at Montreal Island, or any place subsequently visited.

"Point Ogle, Montreal Island, and Barrow Island, were searched, without finding anything except a few scraps of copper and iron in an Esquimaux hiding-place.

"Recrossing the strait to King William's Island, we continued the examination of its southern shore, without success, until the 24th of May, when, about ten miles eastward of Cape Herschell, a bleached skeleton was found, around which lay fragments of European clothing. Upon carefully removing the snow, a small pocket-book was found, containing a few letters. These, although much decayed, may yet be deciphered. Judging from the remains of his dress, this unfortunate young man was a steward or officer's servant, and his position exactly verified the Esquimaux's assertion that they dropped as they walked along.

"On reaching Cape Herschell, next day, we exam-

ined Simpson's Cairn, or rather what remains of it, which is only four feet high, the central stones having been removed, as if by men seeking something within it. My impression is, that records were deposited there by the retreating crews, and removed by the natives."

In the mean while still more important discoveries had been made by Lieut. Hobson. After parting from M'Clintock, on the 28th of April, at Cape Victoria, he made for Cape Felix, the northernmost point of King William's Land. At a short distance westward of it he found a very large cairn, and close to it three small tents, with blankets, old clothes, and other relics of a shooting or a magnetic station; but, although the cairn was dug under, and a trench dug all round it at a distance of ten feet, no record was discovered. A piece of blank paper, folded up, was found in the cairn, and two broken bottles, which may, perhaps, have contained records, lay beside it, among some stones which had fallen from off the top. The most interesting of the articles discovered here, including a boat's ensign, were brought away. About two miles further to the southwest a small cairn was found, but neither records nor relics obtained. About three miles north of Point Victory a second small cairn was examined, but only a broken pickaxe and empty canister found.

On the 6th of May Lieut. Hobson pitched his tent beside a large cairn upon Point Victory.\* Lying among some loose stones which had fallen from the top of this cairn, was found a small tin case, containing a record, which gave the first authentic and definite information as to the fate of the Franklin expedition. This most interesting document is a sheet of paper furnished by

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\* So called by Sir James Ross, in 1830. It was the farthest point reached on King William's Land by that indefatigable Arctic traveller.



the British Admiralty, on which is printed, in five different languages, the following formula :

"Whoever finds this paper is requested to forward it to the Secretary of the Admiralty, London, *with a note of the time and place at which it was found* ; or, if more convenient, to deliver it for that purpose to the British Consul at the nearest port."

The record is written on the margin of this paper, and consists of two separate entries. The first is as follows :

"28 May, 1847. H. M. Ships Erebus and Terror wintered in the ice, in lat.  $70^{\circ} 5' N.$ , lon.  $98^{\circ} 23' W.$  Having wintered in 1846-7 \* at Beechey Island, in lat.  $74^{\circ} 43' 28'' N.$ , lon.  $91^{\circ} 39' 15'' W.$ , after having ascended Wellington Channel to lat.  $77^{\circ}$ , and returned by the west side of Cornwallis Island.

SIR JOHN FRANKLIN, Commanding the Expedition.

All well.

Party, consisting of 2 officers and 6 men, left the ships on Monday, 24th May, 1847.

G. GORE, Lieutenant.

CHAS. F. DES VŒUX, Mate."

From this it appears that the ships were then safe at their winter quarters in the ice, and the party all well. But the other entry, which is dated nearly a year later, tells a different tale. It runs thus :

"25th April, 1848. H. M. Ships Terror and Erebus were deserted on the 22d April, 5 leagues N. N. W. of this, having been beset since 12th Sept., 1846. The officers and crew, consisting of 105 souls, under the command of Capt. F. R. M. Crozier, landed here, in lat.  $69^{\circ} 33' 42''$ , lon.  $98^{\circ} 4' 1''$ , and start on to-morrow, 26th, for Back's Fish River." — "This paper was found by Lieut. Irving under the cairn supposed to have been built by Sir James Ross in 1831, 4 miles to the north-west, where it had been deposited by the late Commander Gore in May (June), 1847. Sir James Ross's pillar has not, however, been found, and the paper has been transferred to this position, which is that in which Sir J. Ross's pillar was erected. Sir John Franklin died on the 11th June, 1847 ; and the total loss by deaths in the expedition has been, to this date, 9 officers and 15 men.

JAMES FITZJAMES, Captain H. M. S. Erebus.

F. R. M. CROZIER, Captain and Senior Officer."

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\* This is a mistake. The ships wintered at Beechey Island in 1845-6.

A vast quantity of clothing and stores of all sorts lay strewn about, as if here every article was thrown away which could possibly be dispensed with : pickaxes, snows, boots, cooking utensils, iron-work, rope, blocks, canvas, a dip circle, a sextant engraved "Frederic Hornby, R. N.," a small medicine-chest, oars, &c.

A few miles southward, across Back Bay, a second record was found, having been deposited by Lieut. Gore and M. Des Vœux, in May, 1847. It afforded no additional information.

Lieut. Hobson continued his journey southward along the western shore of King William's Land, but made no further discovery until he reached lat.  $69^{\circ} 9' N.$ , and long.  $99^{\circ} 27' W.$ , when he noticed what appeared to be two sticks peering above the frozen snow. Struck with their singularity in this barbarous region, he was led to examine them more closely, and was rewarded by finding that these "sticks" were in fact the awning stanchions of a boat buried in the snow; and on clearing around it, the ghastly spectacle of two human skeletons presented itself. One of these lay in the after part of the boat, under a pile of clothing; the other, which was much more disturbed, probably by animals, was found in the bow. Five pocket watches, a quantity of silver spoons and forks, and a few religious books, were also found, but no journals, pocket-books, or even names upon any articles of clothing. Two double-barreled guns stood upright against the boat's side, precisely as they had been placed eleven years before. One barrel in each was loaded and cocked. There was ammunition in abundance, also thirty or forty pounds of chocolate, and some tea and tobacco. Fuel was not wanting; a drift tree lay within a hundred yards of the boat. It appears that this boat had been intended for the ascent of the Fish River, but was abandoned apparently

upon a return journey to the ships, the sledge upon which she was mounted being pointed in that direction. She measured twenty-eight feet in length by seven and a half feet wide, was most carefully fitted, and made as light as possible, but the sledge was of solid oak, and almost as heavy as the boat.

Having prosecuted his search until within a few days' march of Cape Herschell, the southernmost point of King William's Land, without finding any trace of the wrecked ships or of natives, Hobson set out on his return to the Fox, taking with him from the boat such relics as could conveniently be carried, and leaving there full information of his discoveries for the use of Capt. M'Clintock, when he should arrive at that point.

The latter officer, making the circuit of the island from the eastern side, proceeded northward from Cape Herschell over the ground already searched by Lieut Hobson.

"Soon after leaving Cape Herschell," he says, "the traces of natives became less numerous and less recent, and after rounding the west point of the island they ceased altogether. This shore is extremely low, and almost utterly destitute of vegetation. Numerous banks of shingle and low islets lie off it, and beyond these Victoria Strait is covered with heavy and impenetrable packed ice."

He came upon the boat above described, and there found the notice of Hobson's discoveries. On the 5th of June he reached Point Victory, without having found anything further. The clothing and other articles were again examined for documents, note-books, &c., without success, a record placed in the cairn, and another buried ten feet due north of it.

On the 19th of June he reached the ship, five days after the arrival of Lieut. Hobson. On the 28th of June

**Capt** Young and his party returned, having completed their portion of the search, by which the insularity of Prince of Wales' Land was determined, and the coast line intervening between the extreme points reached by Lieutenants Osborne and Browne, discovered; also between Bellot Strait and Sir James Ross's furthest in 1849, at Four River Bay.

Fearing that his provisions might not last out the requisite period, Capt. Young sent back four of his men, and for forty days journeyed on through fogs and gales, with but one man and the dogs, building a snow hut each night. But few men could stand so long a continuance of labor and privation, and its effect upon Capt. Young was painfully evident.

All were now on board again. The summer proved a warm one; and on the 9th of August they were able to start on their homeward voyage. By the aid of her steam power the ship was forced up to Fury Point. There for six days she lay, closely beset, when, a change of wind removing the ice, her voyage was continued, almost without further interruption, to Godhaven, in Disco, where she arrived on the 27th of August. On the 21st of September, 1859, the Fox arrived in England, — having accomplished fully the object of her voyage, with the loss of only three men.

Gathering up the fragments of information which have been obtained from time to time by the various searching expeditions, we are now enabled to present, in a connected form, all that is known — and probably all that ever will be known — concerning the last voyage of Sir John Franklin.

It will be remembered that the Erebus and Terror, which left England in May, 1845, were last seen on the 26th of July, moored to an iceberg, in Baffin's Bay,

awaiting an opportunity to enter Lancaster Sound. They must have succeeded in this soon after; for they reached Beechey Island in time to explore Wellington Channel before going into winter quarters. Franklin's instructions from the Admiralty were to make to the south-west from Cape Walker. Probably the ice blocked his advance in that direction; and so, Wellington Channel being open, he determined to lose no time, but to attempt a northern passage around the Parry Islands. Pressing then to the northward, he ascended Wellington Channel as far as lat.  $77^{\circ}$  N.; where, instead of reaching, as he hoped, an open sea, he found, doubtless, like the expeditions which have since followed the same track, a wide expanse of water, perfectly choked up with ice, extending to the westward as far as the eye could reach. Baffled thus, his only course was to return to the southward. In so doing he passed along the west side of Cornwallis Island, thus proving that a channel exists between Cornwallis and Bathurst Islands, and entered Barrow's Strait, at a point nearly due north of Cape Walker, in which direction alone he was now constrained to seek a route whereby to reach the sea off the coast of North America.

But by this time the autumn must have been well advanced. The nights were getting rapidly longer. Further progress that season was impossible. The *Erebus* and *Terror* accordingly bore away for Beechey Island, and there Sir John Franklin and his companions passed the winter of 1845-6. Three men died during their stay at this place. But this was no unusual degree of mortality, and there is no reason to suppose that the party had to endure more than the ordinary hardships of an Arctic winter. They were remarkably well provided and organized; and it was undoubtedly with unabated ardor and in a high state of efficiency



that they broke out of their winter quarters, as soon as the season would allow, and pursued their adventurous voyage, as we suppose, down Peel Sound. This must have been at some time between the 3d of April and 1st of September, 1846. Probably it was in July or August. It can hardly have been so late as September, for on the 12th of that month we find the Erebus and Terror beset far to the southward, in lat.  $70^{\circ} 8'$ , lon.  $98^{\circ} 23'$ . In that position, which is about twelve miles due north of Cape Felix, they passed the winter of 1846-7.

One of those impenetrable ice-streams which flow down from the vast unknown sea, lying north and west of the Parry Islands, passes between Melville and Banks's Lands, and, impinging with fearful force upon the exposed western shores of Prince of Wales's Land and the islands across Barrow's Straits, is fairly blocked up in the narrows about King William's Land. Sir James Ross, standing on Cape Felix, in May, 1830, remarked with astonishment the fearful nature of this oceanic ice. He mentions that in some places the pressure had driven the floes inland half a mile beyond the highest tide mark!

Such were the terrible winter quarters of those lone barks and their gallant crews; and if that season of monotony was trying to them in Beechey Island, where they could in some measure change the scene by travelling in one direction or the other, how infinitely more so it must have been with nothing around them but ice-hummock and floe-piece, with the ships constantly subjected to pressure and ice-nip, and often in danger of being engulfed in some awful tempest, when the ice-fields would rear and crush one against the other, under that tremendous pressure from the north-west.

Yet, in the midst of all these perils, by the aid of every expedient of labor and amusement which Sir John

Franklin's great experience could suggest, the whole party were maintained in health and vigor while the dark winter months wore away. They were doubtless sustained and encouraged by the knowledge that they were now only ninety miles from Cape Herschell, and that a sledge party could reach it in the spring before the navigation would be open. Once there, and satisfied that the expedition was really in the channel leading to Dease and Simpson's Straits, and the north-west passage would be in fact discovered; for Franklin would then be on familiar ground, as he had explored nearly all the coast of North America westward from that point years before.

It was probably with this object in view that Lieut. Graham Gore and Mr. F. Des Vœux, mate, accompanied by six men, started for the land on the 24th of May, 1847. Four days afterwards they stopped at a cairn built by Sir James Ross on King William's Land, and left a record there, which tells us that when they left the ships all on board were well. From its very brevity we may infer that they anticipated no disaster, and had not bated one jot of heart or hope. All were doubtless looking forward to a continuation of their voyage as soon as the summer sun should bring its force to bear upon the ice. Lieut. Gore and his companions probably traversed the short distance to Cape Herschell in a week; and we can fancy them casting one glance upon the long-sought shores of America, and hastening back to share their delight with those imprisoned in the ships.

Alas! before their return sorrow had fallen heavily upon the hearts of those hardy explorers. Summer had come. The ice around the Erebus and Terror was still unbroken, but the strength of their veteran commander had melted away. Sir John Franklin, now more than sixty years old, the best years of whose life had been

spent in encountering Arctic perils, had yielded to them at last. He died on the 11th of June, 1847. Before the toilsome search, which his faithful wife urged on with such self-sacrificing devotion, had even commenced, he was at rest.

"His last sea-fight was fought,  
His wreath of glory won."

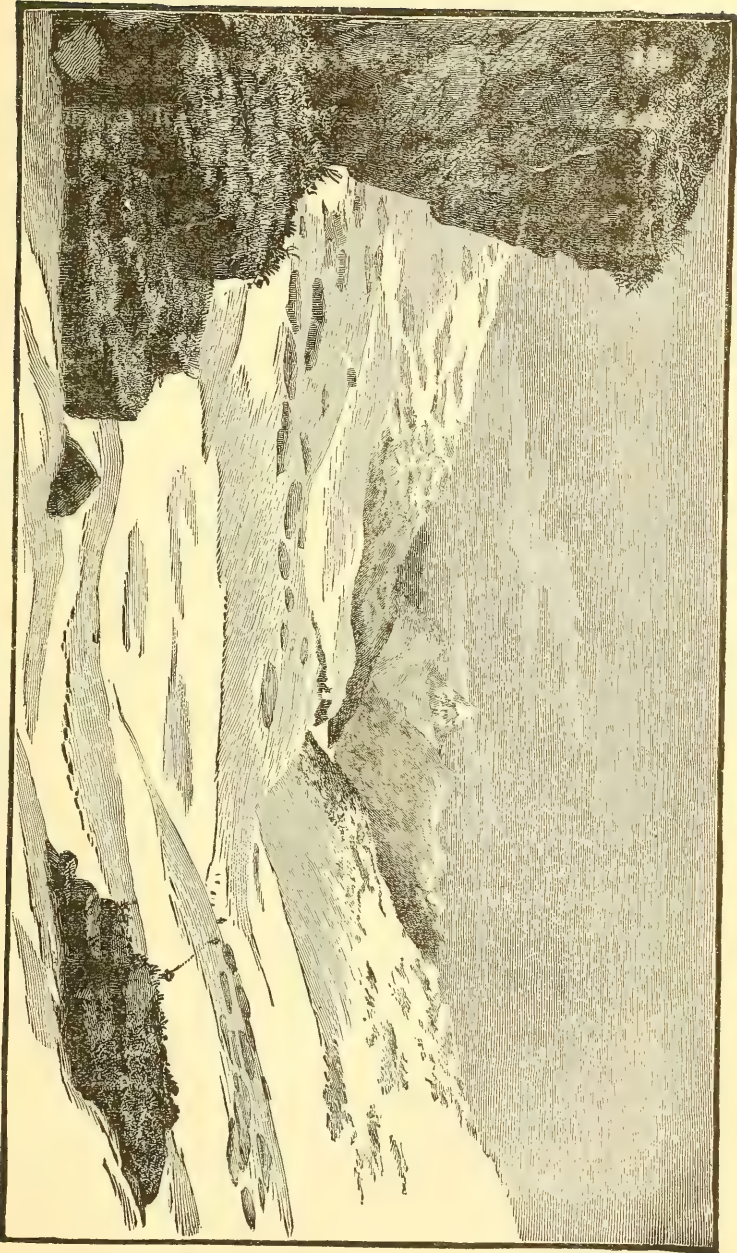
Before the dark shadow of coming disaster had settled upon his expedition; while the great object of his life seemed almost accomplished; surrounded by his comrades, with all the comforts the ships could afford, he died, and was released.

"Not for him that hour of terror,  
When, the long ice-battle o'er,  
In the sunless day his comrades  
Deathward trod the Polar shore.

Spared the cruel cold and famine,  
Spared the fainting heart's despair,  
What but that could mercy grant him?  
What but that has been *her* prayer?"

The death of their beloved leader must have made a mournful vacancy in the little band on board the *Erebus* and *Terror*. But they were not men to be disheartened. Capt. Crozier succeeded to the command, and the daily routine of duty went on steadily as before. So the summer passed, and autumn came. The prospect before them began to look dismal indeed. Scurvy was already showing itself among the crews, their provisions would fail before another year, winter was close at hand, and still they were drifting helplessly in the ice-pack.

Slowly they drifted to the south. Ten miles, twenty miles, thirty miles were passed over; only sixty miles of ice remained between them and the sea off the American coast; one narrow lane of open water would have saved them; but not a foot of open water was in sight



VICINITY OF LADY FRANKLIN BAY.





**At last** the ice-stream ceased to drift. Fifteen miles N. N. W. of Point Victory, the dread winter of 1847-8,—with disease, and cold, and want, and darkness,—closed around those forlorn and desperate men.

An escape by land was now their only hope, and every effort was made during the winter to get all things in readiness to start at the earliest practicable moment. When that time arrived, eight officers and twelve men, one after another, had shared the happy fate of Sir John Franklin. The survivors, one hundred and five in number, a wan, half-starved, scurvy-stricken crew, piled up their sledges with all descriptions of gear, and on the 22d of April, 1848, under the lead of Captains Crozier and Fitzjames, took their way to King William's Land.

They were three days traversing the intervening distance of fifteen miles, and the sad conviction was already pressing upon them that they had overrated their physical strength. A few miles north-west of Point Victory they found the record deposited by Lieut. Gore. The hand that wrote it was now cold in death. With a hand almost as cold, Capt. Fitzjames proceeded to write round its margin those few but graphic words which tell all we know of this last sad page in their history. The record, thus completed, was placed in a cairn built on the assumed site of James Ross's pillar, at Point Victory. There the party were to rest for the night; and on the morrow, the 26th of April, 1848,—about the time that the first searching expedition was getting ready to sail from England,—they were to set out for the Great Fish River.

Here all positive knowledge of their movements comes to an end. What afterward befell them can be stated only from conjecture, based upon the statements of the Esquimaux, and the various relics that have been discovered. From the numerous articles found scattered

about near the cairn at Point Victory, we know that before starting they threw away everything that could possibly be spared, to lighten their burden. Forty days' provision is the utmost amount that they could have carried upon their sledges, in addition to their other equipments. The country at that season afforded no game; but, as the Great Fish River is known not to open before August, it is supposed that they hoped to find deer and salmon, when they reached the main land, with which to sustain themselves during the intervening time. It was probably the absolute necessity of procuring *fresh* provisions—for salted meat is simply poison to men afflicted with scurvy—that induced them to abandon the ships at so early a period of the year.

The boat found by Lieut. Hobson, about sixty-five miles from the ships, with her bow turned northward, proves that some portion of the party attempted a return. Capt. M'Clintock thinks that they were returning for more provisions. Lieut. Sherrard Osborne gives a different explanation. He thinks that, as the men toiled slowly along, growing weaker from day to day, under the fearful labor of dragging such ponderous sledges and boats, as well as their disabled comrades, through the deep snow and over rugged ice, it became apparent that, if any were to be saved, there must be a division of the party, and that the weak and disabled must stay behind. Those who were too weak to go on accordingly turned back with this boat. The skeletons found in her, and the bones said to have been found by wandering Esquimaux on board one of the ships, are, upon this theory, the remnants of the sick and weak, who must have formed a large proportion of the original party that landed at Point Victory. Either of these explanations is probable enough; but we only know, after all, that a portion of the party turned back, for

some reason, toward the ships, and that two men, at least, found a grave in this boat. The shroud of snow which covered them for ten long years has been lifted, but a mystery still enwraps them, which the fancy seeks in vain to penetrate.

“Their last dark record none may learn :

Whether, in feebleness and pain,  
Heartsick they watched for the return  
Of those who never came again ;

Or if, amid the stillness drear,  
They felt the drowsy death-chill creep,  
Then stretched them on their snowy bier,  
And slumbered to their last long sleep.”

That a considerable number of the party continued pushing on southward, we know from the testimony of the Esquimaux. The skeleton found eastward of Cape Herschell proves that they reached that point, and seems also to confirm the Esquimaux story that many of them dropped and died as they walked along ; for it lay exactly as the famished seaman had fallen, with his head toward the Great Fish River and his face to the ground. We know, also, upon Esquimaux authority, which there is no reason to doubt, that a remnant succeeded in reaching the mouth of the Great Fish River. “After the arrival of the wild fowl,” says the Esquimaux report, “but before the ice broke up, the bodies of thirty persons and some graves were discovered on the continent, and five other corpses on an island. Some of the bodies were in a tent, others under the boat, which had been turned over to afford shelter.” The native description of the locality where this sad scene occurred agreed exactly with Montreal Island and Point Ogle. The time of its occurrence is left somewhat indefinite by their statement ; but, knowing what we now do of the abandonment of the ships, and taking all circumstances

into consideration, there can be little doubt that it was in the summer of 1848, and that the feeble band which perished at the mouth of the Great Fish River, while waiting for the disruption of the ice, were the last survivors of the gallant crews of the *Erebus* and *Terror*.

With regard to the ships, the substance of the information obtained from the Esquimaux is, that "several years ago" one ship was crushed by the ice off the north shore of King William's Land; and that the other was drifted ashore in the fall of the same year. This destruction of one ship and wreck of another occurred, so far as Capt. M'Clintock could ascertain, subsequently to their abandonment. Some of the natives, seen by him, had visited the wreck as late as the winter of 1857-58. An intelligent old woman stated that on board the wrecked ship there was one dead white man, "a tall man with long teeth and large bones." There had been, "at one time, many books on board of her, as well as other things; but all had been taken away or destroyed when she was last at the wreck." If the wreck still remains visible, she probably lies upon some one of the off-lying islets to the southward between Capes Crozier and Herschell; as no signs of her could be discovered on the shore of King William's Land.

The following description of the affecting memorials brought home by Capt. M'Clintock, as they appeared at the United Service Museum, where they were temporarily deposited, is by a writer in the *London News*:

"In the first case is the 'ensign' of one of the ships, reduced almost to shreds, but still preserving its colors, and reminding the spectators of the many cheerless days upon which it must have fluttered sadly, but still proudly, from the mast of the ice-bound vessel. In a corner of the same case is also a thin tin cylinder, stained

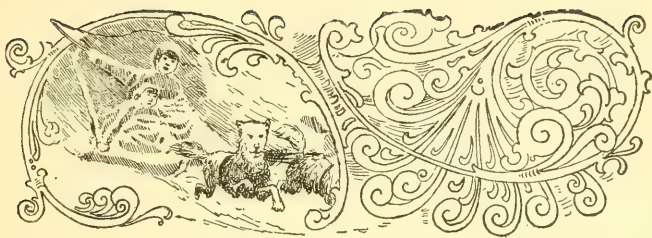
and time-worn. The casual spectator would hardly notice it, but it stands first in importance of all that has been recovered, for it contains the record of the death of Sir John Franklin — that happy death which saved our brave veteran all the subsequent horrors of the journey to the Fish River. Further on are the rude spear-heads into which the Esquimaux had fashioned the iron they obtained from the wreck; and a box-wood two-foot rule, whitened with exposure, but with the figures on it all as bright as the first day. This was, of course, the property of the carpenter, who, it would appear, had, even when starting on his dread journey, not forgotten the implement of his trade. In the same case is a relic which will arrest the eye of many a passer-by. It is the remains of a silk neck-tie, including the bow, as carefully and elaborately tied as if the poor wearer had been making a wedding toilette. This, which was taken from the naked bones of a ghastly skeleton which was discovered some miles distant from the main track of the poor pilgrims, is supposed to have belonged to the ship's steward. There are also various articles of plate, the greater portion of which is marked with Sir John Franklin's device, and two pocket chronometers in excellent preservation. A small silver watch, maker's name 'A. Myers, London,' probably belonged to some young mate or midshipman; and a worm-eaten roll of paper, upon which the single word 'Majesty' remains, was possibly the much-prized warrant of some stout boatswain or quartermaster. There is a little amethyst seal, in perfect preservation, and goggles and snow-veils, to protect the eyes from the dazzling whiteness of the polar snow. Two double-barreled guns, covered with rust, are placed far in on the table. They still contain the charges which were placed in them by hands which have long since lost their cunning The



books recovered are very few ; they would, of course, succumb early to the rigors of exposure,—but there is still well preserved a small edition of the ‘Vicar of Wakefield,’ some religious poetry, and a French Testament, on the fly-leaf of which is written, in a delicate female hand, ‘From your attached (the appellation is obliterated) S. M. P.’ The open medicine-chest contains all its bottles and preparations very little injured, and a little cooking-machine has the fuel arranged, the sticks thrust through the bars ready for ignition, and lucifer matches at the side, as it might have been prepared over night for the morning cooking. It would be impossible to exaggerate the interest and importance of all these simple memorials ; they tell a tale that will find its way to every heart.”

The Franklin expedition, when it sailed from England, numbered one hundred and thirty-eight souls. The record found at Point Victory tells us that the total loss by deaths up to that time had been nine officers and fifteen men, and that the party which landed there numbered one hundred and five souls. This leaves nine men unaccounted for. Is it an error in the figures, or were nine men left on board the ships ?

Although the death of the whole party seems to be now rendered morally certain, we have no *direct* evidence of the death of more than half their number. Until the fate of every man is ascertained, their relatives and friends will cling fondly to the hope that some may yet be living, and will urge the policy of sending new expeditions



## CHAPTER XXII.

DEATH OF DR. E. K. KANE.—DR HAYES' EXPEDITION.—DELIVERY OF LECTURES ON THE SUBJECT.—DEPARTURE OF THE UNITED STATES.—AMONG THE ICEBERGS.—A SUBLIME SIGHT AND A NARROW ESCAPE.—WINTER AT PORT FOULKE.—SLEDGE TRAVELLING TO GRINNELL LAND.—REACHES MOUNT PARRY AND CAPE UNION.—RETURNS TO BOSTON.

ON the 16th of February, 1857, at Havana, died Elisha Kent Kane, M.D., aged only thirty-seven years. The hardships and vicissitudes of his Arctic experience, while they failed to affect his vigorous spirits or daunt his unfaltering courage, had completely shattered his physical health, which had never been robust.

Though he died young, he left a record his country will ever be proud of, having achieved a noble fame, not only as a great navigator and explorer, but as a true hero, a good man, faithful and straightforward in the discharge of every duty, and courteous and dignified in his intercourse with his peers and his subordinates.

In the narrative of Dr. Kane's travels, given earlier in this volume, will be found the name of Dr. Hayes, the surgeon of his expedition, and one of his most intrepid companions. Dr. Hayes had shared in all of Dr. Kane's adventures, had experienced all the trials and perils of navigation in the Arctic region; but the intense cold of the far North had not chilled his ardor, nor had the ice-fields and floes "nipped" his courage.

We quote, by way of introducing a brief notice of Dr. Hayes' expedition, from the doctor's own interesting narrative: "The plan of the enterprise first suggested itself to me while acting as surgeon of the expedition commanded

by the late Dr. E. K. Kane, of the United States Navy. Although its execution did not appear feasible at the period of my return from that voyage in October, 1855, yet I did not at any time abandon the design. My object was to complete the survey of the north coasts of Greenland and Grinnell Land, and to make such explorations as I might find practicable in the direction of the North Pole."

On first laying his plans before the public, they were coldly received, in consequence chiefly of the growing feeling that the results proposed to be attained were scarcely worth the risks, while the many lives already lost in the cause were immeasurably beyond all the actual achievements in value, and would be inadequately compensated for by entire success. So thoroughly in earnest was he, however, that he resorted to the delivery of lectures on the subject in different parts of the country, and after a time succeeded in awakening an interest in his plans in some of the scientific associations, and eventually induced some capitalists and others to aid him. It was not, however, till June, 1860, that he was enabled to commence actual arrangements for his departure. These were rapidly made; a schooner called the *Spring Hill* was purchased, its name changed to the *United States*, a ship's company secured, the vessel carefully and completely stocked with provisions, and at last, on July 7th, Dr. Hayes and his party left Boston, in good spirits and with elastic hopes, for the icy shores of Smith's Sound, which point the gallant doctor intended to make the base of his explorations.

Sailing directly for the outer capes of Newfoundland, the "*United States*" narrowly escaped shipwreck on Cape Race, on the 30th of July got within the Arctic Circle, and on August 2nd, reached the bold promontory of Svarte Huk. Here they were becalmed, but a view of the coast and of some fine icebergs seems to have allayed Hayes' vexation at the delay. Indeed, a note in his diary pre-

sents so graphic a picture, we feel justified in making room for a brief extract:

"The air was warm, almost as a summer's night at home, and yet there were the icebergs and the bleak mountains, with which the fancy, in this land of green hills and waving forests, can associate nothing but cold repulsiveness. The sky was bright and soft, and strangely inspiring as the skies of Italy. The bergs had wholly lost their chilly aspect, and glittering in the blaze of the brilliant heavens, seemed in the distance like masses of burnished metal or solid flame. Nearer at hand, they were huge blocks of Parian marble, inlaid with mammoth gems of pearl and opal. One in particular exhibited the perfection of the grand. Its form was not unlike that of the Colosseum, and it lay so far away that half its height was buried beneath the line of the blood-red waters. The sun, slowly rolling along the horizon, passed behind it, and it seemed as if the old Roman ruin had suddenly taken fire and were in flames."

While lost in contemplation of the sublime picture he so admirably transfers to his diary, Hayes was rudely recalled to the dangers of the place by a shout: "Ice close aboard, sir!" and found they were slowly drifting upon a berg; by means of a boat and a line they avoided the unwelcome contact.

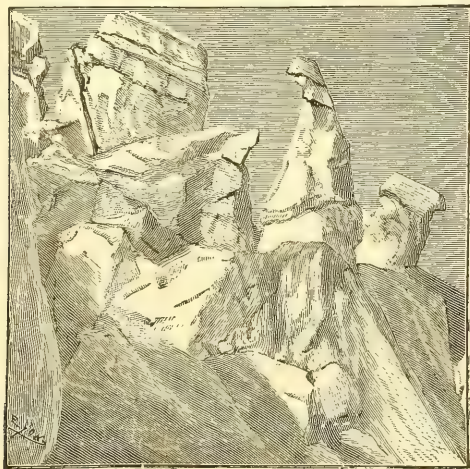
After the usual experiences of those who "go down to the [Arctic] sea in ships," the perils and hairbreadth escapes incident to the navigation of seas full of icebergs, fields and floes, the "United States" took up her winter quarters at Port Foulke, some twenty miles south of Rensselaer Harbor. Dr. Hayes' narrative is often so full of thrilling interest, so eloquent and fascinating are his delineations of some of the threatened collisions with the icy breakers, the "nippings" in the icy fields and floes, that the temptation to introduce extracts is at times almost irresistible; but we have reluctantly to resist the temptation by recollect-

ing the legitimate scope of our work as a sort of cyclo-pedia of Arctic experiences, and thus to keep ourselves within the proper limits.

Having been forced into winter quarters with his schooner, by the utter impossibility of farther advance along the coast, Dr. Hayes' indomitable energy would not permit him to rest from the prosecution of his great work. He immediately resolved upon crossing the sound and trying his fortunes along the coast of Grinnell Land. Setting out with a picked party, he pushed on vigorously, but sledge-traveling under favorable auspices is no easy matter, and he found it in this instance so extremely difficult that, at the end of twenty-five days, they had not got half-way across the sound, while many of his party were quite exhausted and unable to proceed farther. Determined not to abandon his enterprise while there was the least possibility of pushing it to the desired result, he sent all but three of his companions back to the schooner; and retaining fourteen of the dogs, these four determined men pushed dauntlessly forward. Fourteen days completed the crossing of the sound, and then a scarcely less harassing journey along the coast commenced. Five days broke down one of the small party, so that he could travel no farther. He could not be left alone, and Hayes would not yet give up; so leaving the disabled man and one to take care of him, the intrepid doctor pursued his journey with a single attendant, until, on the 18th of May, he was brought to an absolute stand by rotten ice and cracks that forbade his advance. He had now, however, the extreme satisfaction of finding himself at Mount Parry, and seeing, just before him, Cape Union, the most northern *known* land, which had hitherto been seen by but one—Captain Parry. He returned then to the schooner. During the winter and until the 12th of July, Hayes and his party made several excursions of more or less importance, but with no results that we need here note. On the latter



date, the ice having released the schooner, the daring commander attempted to reach the opposite coast and push his discoveries in Grinnell Land. But finding that the rough usage amid the ice had so badly crippled his little vessel that it was impossible to force her through the pack-ice, he had to forego his plans for a time and return to his native land. His noble little schooner reached Boston in October, 1861, and the energetic doctor found himself and his co-adventurers once more at the Hub in good health and spirits, not discouraged in the least, but resolved at the earliest opportunity to go forth again on a similar expedition. One notable feature of this expedition is the uniform good health of the entire corps. Dr. Hayes' experience as surgeon of Kane's expedition had taught him how to steer clear of "scurvy," that fell foe of life in the Frozen Zone, and he had so well learned the lesson that not any of his party at any time had the slightest symptom of the terrible disorder. But one died—Mr. Sonntag, the second in command—and his death was caused by falling into a tide-crack, and then attempting to reach shelter in his wet clothes.





## CHAPTER XXIII.

CAPTAIN C. F. HALL.—HIS PERSONAL APPEARANCE.—EARLY LIFE.—INTERESTED IN BOOKS OF TRAVEL AND ADVENTURE.—HE BECOMES INTERESTED IN ARCTIC EXPLORATIONS.—FIRST EXPEDITION.—JOE AND HANNAH.—HIS RETURN, AND THE RESULTS OF HIS LIFE IN GREEN LAND.—SECOND EXPEDITION.—ITS RESULTS.

WE come now to speak of the universally lamented Captain Charles Francis Hall, and of his three notable expeditions and their important results.

Of the many brave, adventurous men who have entered upon the work of exploring the Frigid Zone, scarcely one, except it be Sir John Franklin, can be classed with Captain Hall. During a period of more than twenty years, his one leading idea was to conduct an expedition to the work of exploring the far North; his large mind was devoted to laying out plans and devising means to discover the hidden secrets of the frozen regions of the North Pole. No man, with the single exception suggested, has ever so entirely consecrated himself to this work.

In his prime, Captain Hall was tall and well proportioned, possessing a massive, rugged and yet vigorous frame which seemed to indicate that he could endure a vast amount of exposure and fatigue. His *physique* was just what we should imagine that of a man of his indomitable courage and indefatigable energy. He had a firmly-set, expressive mouth, enveloped by a thick brown beard and moustache; a clear, penetrating dark-blue eye, with heavy overhanging brows. He had the appearance of a man born to command, and one who could not be swerved from a path he had once chosen for his feet.

In presenting a sketch of Captain Hall, we shall not

spare space to notice his pedigree or birth, but only remark that he was a native of Vermont; his parents had left there when he was still very young, and he lived for upwards of fifteen years in Cincinnati. He evinced a fondness for books of travel and adventure in early boyhood. Having been put to the trade of engraving, he devoted his spare change to procuring, and his spare moments to reading, works of this class. He early became an ardent sharer in the interest in the then uncertain fate of Sir John Franklin, and in 1850 began to look forward to taking an active part in the search for him and his party, or at least for some certain information concerning them. It was about this time that the first Grinnell expedition was in course of fitting out, and the popular interest was intense throughout this country and indeed in all parts of the civilized world. Hall, during the next decade, became not only an enthusiastic student, but devoted every moment of leisure at his command to acquainting himself with all that was known in regard to polar matters; and being of active mind, he made his own deductions, formed his own opinions, and matured his own plans.

In 1854, Hall's sympathies were deeply stirred by the heroic conduct of Lady Franklin in organizing and equipping an expedition at her own expense (see Chapter XXI.). Notwithstanding the discoveries of Rae and Anderson, there was still much mystery enveloping the fate of some of Sir John Franklin's men, and this mystery Hall felt could and should be unraveled. He resolved upon an attempt to co-operate with Lady Franklin's expedition, and with him to resolve was to do, and he immediately set about his arrangements for the most remarkable expedition on record.

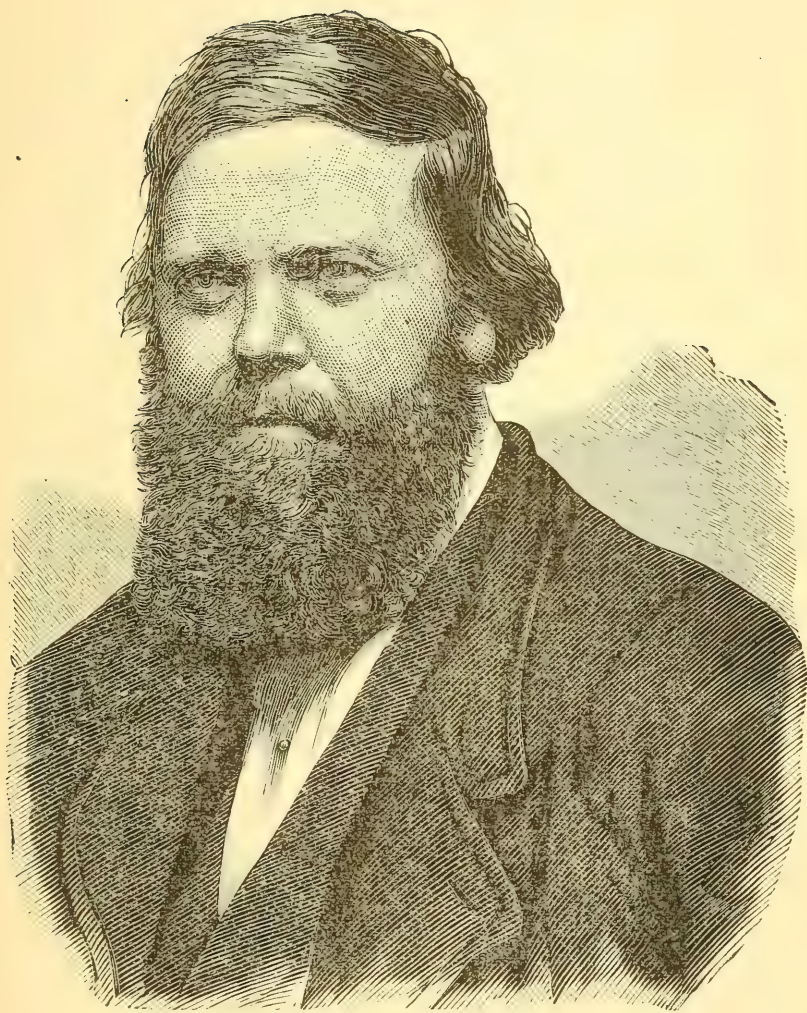
We quote here an extract from an article in the *New York Tribune* of June 1st, 1860, as it in a few words states the objects, and describes the starting, of Hall's first expedition.

“On Tuesday morning, Mr. C. F. Hall sailed from the port of New London (Conn.), in the whale-ship *George Henry*, Capt. S. O. Buddington. The design of Mr. Hall's expedition is twofold: First, to survey the unexplored region lying between Cape Willoughby and the eastern entrance to Fury and Hecla Straits; and, secondly, to endeavor to gather additional particulars respecting the fate of Sir John Franklin's expedition. Mr. Hall is of the opinion that there may be still living some of that company, who are held in bondage or are living among the northern and western tribes of Esquimaux, having become in a measure identified with their manners and customs, and fearing the peril and danger attendant upon a journey of several hundred miles over untrodden ground, have settled down with the people of their necessitous choice. To these he will offer the means to return to their country and friends, and gather from them the full particulars of the fate of their companions. During his journeyings he will make observations on the dip, variation and intensity of the magnetic needle.

“While on a visit to New London, in February last, with a view of purchasing the *Amaret* (the *Rescue* of the Grinnell expedition), he, in company with Captain Buddington, planned a boat expedition, relinquishing the idea of proceeding to the Arctic seas with a large vessel. Messrs. Williams & Haven, a firm who have a large fleet of vessels engaged in the Arctic whale-fishery, offered him a passage *free of charge*. This offer was gratefully accepted. Mr. Hall immediately left for the West, where he resided, leaving Captain Buddington to superintend the building of the boat. Mr. G. W. Rodgers, who built the boats for the expeditions of De Haven, Kane and Hartstein, took the contract and built a boat in many respects resembling those in use by whalers.

“At the West, Mr. Hall went zealously to work gathering material for his proposed expedition—provisions,





CAPT. CHARLES F. HALL.





books, clothing, charts, guns and ammunition—several of the most influential men assisting him in procuring the necessary outfits. The *George Henry* is the vessel which, while commanded by Captain Buddington, picked up, in 1855, in Baffin's Bay, the British exploring ship *Resolute*, which Congress bought from her salvors and returned to the British navy. The *Amaret* (formerly the brig *Rescue*) is now schooner rigged, and goes out as a tender to the *George Henry*. She is to be under the command of Captain Henry Reuben Lamb.

"The *George Henry* will transfer Mr. Hall to the *Amaret* when they arrive in Cumberland Inlet, and then she will cruise for whales. The *Amaret* will probably take Mr. Hall to Sussex Island, where he will disembark and organize a boat's crew of Esquimaux. After becoming in a measure acclimated, and procuring additional outfits, he will start for the scene of his undertaking. The *Amaret* will then join the *George Henry*, and they will pursue their legitimate calling till about the first of November, when they will seek their winter quarters somewhere in the latitude of 63° north.

"Cud-la-ja-ah, an Esquimaux, a native of the west side of Baffin's Bay, sailed with Mr. Hall, and will go with him on his boat journey, acting as his mate and guide. He will trust him in a great measure in the selection of his crew. He is an experienced whaleman, and is thoroughly conversant with the region into which Mr. Hall desires to penetrate.

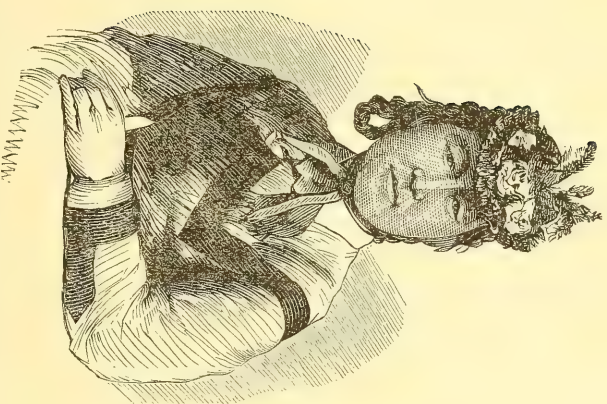
"Mr. Hall seemed in excellent spirits, and never for a moment showed any hesitation or want of confidence in his undertaking. Cud-la-ja-ah was in good humor, and seemed pleased to think he would be soon at his icy home."

Thus, in the best of spirits, with high hopes, and under favorable auspices, went forth this wonderful exploring expedition, comprising *one* white man and one Esquimaux

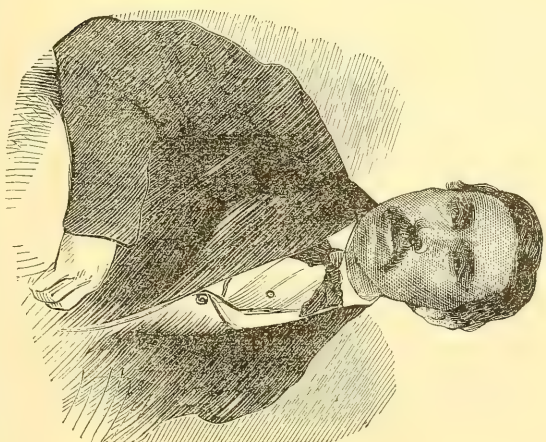
or Innuít. The intrepid explorer arrived in due time, August 8th, in a bay in latitude  $63^{\circ} 20'$ , called by the natives Ookoolear, but by Hall named Cornelius Grinnell Bay. Here Hall took up his quarters for a time, and set himself to learn the language and the manners and customs of the Esquimaux, or Innuits, as they call themselves, a term which simply signifies "men."

Shortly after he had made himself at home, he was surprised, while writing in his cabin, to hear a low, sweet voice say, "Good-morning, sir," and on looking up saw a fair-skinned, rather good-looking Innuít woman. This was Yukilitoo, the wife of Ebeeing, a somewhat famous seal-hunter and pilot. These two had, seven years before, been taken to England by a whaler, and had there been well received and made much of, dining with Prince Albert and being introduced to the queen. The wife had acquired an excellent knowledge of the English tongue, speaking it fluently and with no little grace, while the husband had learned it well enough to speak quite intelligibly. This was a fortunate surprise for Hall, as the two became his firm, attached friends, remaining with him till the day of his death, and rendering services that were often of the last value. They will doubtless be more readily recognized by our readers by their Christian names, Joe and Hannah.

We cannot attempt to follow Hall in his life among the Innuits, or in his exploring trips. Suffice it here to say that he was not idle or neglectful of the objects of his voyage. Shortly after his arrival, he was deprived, by the loss of his boat, of the means of making the journey westward, to the region where alone he could have prosecuted the search for intelligence of Franklin's unfortunate party. However, his explorations, limited as they necessarily were, were attended with important results. Precious relics of the expedition of Frobisher (see Chapter I.) were found, the fate of five seamen who deserted that navigator



ANGLATO, OR HANNAH, THE WIFE OF EBBING, OR JOE.



EBBING, OR JOE, CAPTAIN HALL'S INNUIT FRIEND.





was determined, and what had until then been known as Frobisher Strait was completely explored by Hall, and proved to be but a bay. Besides, he gathered much valuable information as to the habits of the natives, and learned by experience what cannot fail to be invaluable to subsequent explorers in those climes. After a speedy and prosperous home voyage, the *George Henry* dropped anchor again at New London, on the 13th of September, 1862. Hall's two Innuït friends had accompanied him home, and of course attracted much attention; they had brought with them their infant daughter, a year old, named Yukeliteka, "Butterfly," but the little one died a few months after their arrival, and lies buried in the graveyard at Groton, Connecticut.

Not satisfied with the results of his first remarkable expedition, Hall at once set about planning a second. He spent two years in getting his exceedingly interesting narrative of his experience and his discoveries in the Arctic zone through the press, and at the same time was actively perfecting his plans for a second expedition.

Ample facilities were now placed at his disposal, and on the 30th of July, 1864, he had completed his arrangements, and again set sail in the whaler *Monticello*, accompanied only by his Innuït friends, Ebeeing and Yukilitoo. In his preface to his book, he says:

"I am persuaded that among the Innuïts may be sought, by one competent, with every chance of complete success, the sad history of Sir John Franklin's men. To make myself competent for this more interesting and important research, I patiently acquired the language and familiarized myself with the habits of the Esquimaux. I now return to their country able to speak with them, to live among them, to support my life in the same manner that they do theirs; to migrate with them from place to place, and to traverse and patiently explore all the region in which it is reasonable to suppose Franklin's crew trav-

eled and perished. I shall be accompanied by the two intelligent Esquimaux, Ebeeing and Yukilitoo, who, having accompanied me on my return from my first expedition, and after remaining with me for two years, now go back with me on this second voyage. I enter upon this undertaking with the liveliest hope of success. I shall not, like previous explorers, set my foot on shore for a few days or weeks, or, like others, journey among men whose language to me is unintelligible. I shall live for two or three years among the Esquimaux, and gain their confidence; and I have the advantage of understanding their language and of making all my wishes known to them."

The second expedition of Hall occupied more than five years, instead of the two or three years which he had anticipated. During the last three years he was completely shut out from communication with home. Up to 1867, he wrote as opportunity afforded to his fast friend and warm supporter, Henry Grinnell. In 1868, when he fully expected to sail for home, no whaling-vessel came back from the Arctic seas, and he was compelled to linger another year in that region. Late in 1869 he returned, and was received with plaudits not less warm than those which had welcomed Kane, fifteen years before.

Congress, in a few months, passed a bill making adequate appropriations for a national expedition to the Arctic regions, to be placed under the direction of Captain Hall, but of this we shall speak in detail in our next chapter, telling all that is known of the *Polaris* and her, in some respects, disastrous voyage.

Captain Hall's letter, or report, to Henry Grinnell, Esq., dated Repulse Bay, June 20, 1869, states in detail the information he had gained, and the relics he had secured, of the Franklin expedition. The information it is not necessary to recapitulate here, as it is mainly corroboratory of what Rae and Anderson had already obtained (see

Chapter XXVIII). Still, we make a few brief extracts which we deem sufficiently interesting to be worth the space they occupy:

"This day I have returned from a sledge journey of ninety days to and from King William's Land. It was my purpose, and every preparation was made, to make this journey last season, but my attention then having been called to Melville Peninsula, in the vicinity of Fury and Hecla Straits, where native report had it that white men had been seen, I directed my expedition there, by way of Am-i-toke, Oog-lik Isle, Ig-loo-lik, with the ardent hope and expectation of rescuing alive some of Sir John Franklin's lost companions. The result of the journey was the finding of the tenting-place of a few white men and a stone pillar they had erected close by it at the bottom of Parry Bay, which is some fifty miles south of the western outlet of Fury and Hecla Straits, and the visiting of several places where white men and their traces had been seen by natives of Ig-loo-lik and vicinity in or about the years 1866-'67. I also gained much information from the natives of Ig-loo-lik, North Oog-lik Isle, and thereabouts. . . .

"The result of my sledge journey to King William's Land may be summed up thus: None of Sir John Franklin's companions ever reached or died on Montreal Island. It was late in July, 1848, that Crozier and his party, of about forty or forty-five, passed down the west coast of King William's Land, in the vicinity of Cape Herschel. The party was dragging two sledges on the sea ice, which was nearly in its last stage of dissolution, one a large sledge lader with an awning-covered boat, and the other a small one laden with provisions and camp material. Just before Crozier and party arrived at Cape Herschel they were met by four families of natives, and both parties went into camp near each other. Two Esquimaux men, who were of the native party, gave me much sad but deeply

interesting information. Some of it stirred my heart with sadness, intermingled with rage, for it was a confession that they, with their companions, did secretly and hastily abandon Crozier and his party to suffer and die for need of fresh provisions, when in truth it was in their power to save every man alive. The next trace of Crozier and his party is to be found in the skeleton which McClintock discovered a little below, to the southward and eastward of Cape Herschel. This was never found by the natives. The next trace is a camping-place on the sea-shore of King William's Land, about three miles eastward of Pfeiffer River, where two men died and received Christian burial. At this place fish-bones were found by the natives, which showed that Crozier and his party had caught, while there, a species of fish excellent for food, with which the sea there abounds. The next trace of this party occurs some five or six miles eastward, on a long, low point of King William's Land, where one man died and was buried. Then about south-south-east, two and a half miles farther, the next trace occurs on Todd's Inlet, west of Point Richardson, on some low land that is an island or a part of the main land, as the tide may be. Here the awning-covered boat and the remains of about thirty or thirty-five of Crozier's party were found. . . .

"In the spring of 1849 a large tent was found by some of the natives whom I saw, the floor of which was completely covered with the remains of white men. Close by were two graves. This tent was a little way inland from the head of Terror Bay.

"In the spring of 1861, when the snow was nearly all gone, an Esquimaux party, conducted by a native well known throughout Northern regions, found two boats, with many skeletons in and about them. One of these boats had been previously discovered by McClintock; the other was lying from one-quarter to one-half mile distant, and must have been completely entombed in the snow at the

time McClintock's parties were there, or they most assuredly would have seen it. In and about this boat, besides the many skeletons alluded to, were found many relics, most of them similar in character to those McClintock has enumerated as having been found in the boat he discovered. . . .

"The same year that the *Erebus* and *Terror* were abandoned one of them consummated the great Northwest passage, having five men aboard. The evidence of the exact number is circumstantial. Everything about this Northwest passage ship of Sir John Franklin's expedition was in complete order; four boats were hanging high up at the ship's sides and one was on the quarter-deck; the vessel was in its winter housing of sail or tent cloth. This vessel was found by the *Ook-joo-lik* natives, near O'Reilly Island, lat. 68 deg. 30 min. north, long. 99 deg. 8 min. west, early in the spring of 1849, it being frozen in the midst of a smooth and unbroken floe of ice of only one winter's formation. . . .

"To complete the history of Sir John Franklin's last expedition, one must spend a summer on King William's Land, with a considerable party, whose only business should be to make searches for records which beyond doubt lie buried on that island. I am certain, from what I have heard the natives say, and from what I saw myself, that little or nothing more can be gained by making searches there when the island is clothed in its winter garb, for the Esquimaux have made search after search, over all the coast of King William's Land, on either side, from its southern extreme up to Cape Felix, the northern point, for anything and everything that belonged to the companions of Sir John Franklin, and these searches have been made when the snow had nearly all disappeared from the land.

"My sledge company from Repulse Bay to King William's Land consisted of eleven souls, all Esquimaux.



Although they are as untamable as eagles by nature, yet by their aid alone I was enabled to reach points otherwise inaccessible, and when there to gain much important information relative to the fate of Sir John Franklin's expedition. I tried hard to accomplish far more than I did, but not one of the company would, on any account whatever, consent to remain with me in that country and make a summer search over that island, which, from information I had gained of the natives, I had reason to suppose would be rewarded by the discovery of the whole of the manuscript records that had accumulated in that great expedition, and been deposited in a vault a little way inland or eastward of Cape Victory. Knowing, as I now do, the character of the Esquimaux in that part of the country in which King William's Land is situated, I cannot wonder at nor blame the Repulse Bay natives for their refusal to remain there, as I desired. It is quite probable that had we remained, as I wished, no one of us would ever have got out of the country alive. How could we expect, if we had got into straitened circumstances, that we should have received better treatment from the Esquimaux of that country than the one hundred and five souls who were under the command of the heroic Crozier, some time after the landing on King William's Land? Could I and my party, with reasonable safety, have remained to make a summer search on King William's Land, it is not only probable that we should have recovered the logs and journals of Sir John Franklin's expedition, but have gathered up and entombed the remains of nearly one hundred of his companions, for they lie about the places where the three boats have been found, and at the large camping-place at the head of Terror Bay and the three other places that I have already mentioned. In the cove, west side of Point Richardson, however, Nature herself has opened her bosom and given sepulture to the remains of the immortal heroes that have died there. Wherever the

Esquimaux have found the graves of Franklin's companions they have dug them open and robbed the dead, leaving them exposed to the ravages of wild beasts. On Todd's Island the remains of five men were not buried, but after the savages had robbed them of every article that could be turned to any account for their use, their dogs were allowed to finish the disgusting work.

"Wherever I found that Sir John Franklin's companions had died I erected monuments, then fired salutes and waved the Star-Spangled Banner over them in memory and respect of the great and true discoverers of the Northwest passage.

"I could have gathered great quantities—a very great variety—of relics of Sir John Franklin's expedition, for they are now possessed by natives all over the Arctic regions that I visited or heard of, from Pond's Bay to Mackenzie River. As it was, I had to be satisfied with taking upon our sledges about 125 pounds' total weight of relics from natives about King William's Land."





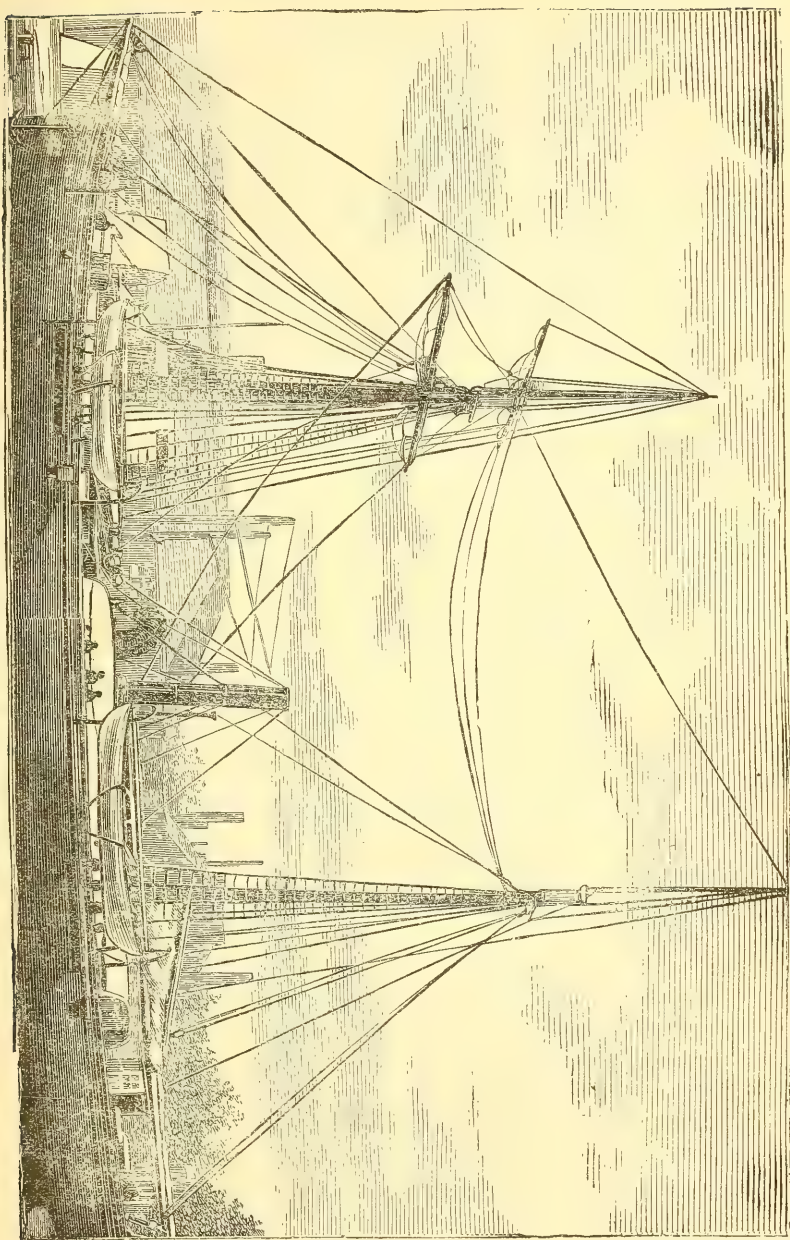
## CHAPTER XXIV.

THE POLARIS EXPEDITION. — CHARACTER OF THE VESSEL. — ITS OUTFIT, CREW AND OFFICERS. — IT LEAVES NEW YORK IN JULY, 1871. — ARRIVAL AT, AND DEPARTURE FROM, UPERNAVIK. — REACHES THE HIGHEST LATITUDE EVER ATTAINED. — VALUABLE DISCOVERIES. — WINTER QUARTERS IN THANK-GOD HARBOR, POLARIS BAY. — CAPTAIN HALL'S SLEDGE EXPLORATIONS. — HIS DEATH AND SOLEMN BURIAL. — SUBSEQUENT MOVEMENTS OF THE POLARIS UNTIL A GALE SEPARATES HER FROM THE PARTY ON THE ICE-RAFT.

As we have intimated in the foregoing chapter, on Captain Hall's return from his second expedition, the interest in Arctic explorations became intense throughout this country, and Congress, echoing the prevalent sentiment, determined to fit out and send a well-appointed expedition, under the command of the now renowned Hall, and appropriated a considerable sum for the purpose. Without entering into prosy details, we will but remark the steamer *Polaris* was selected, thoroughly equipped, completely provisioned, manned with a fine crew and a full corps of efficient officers appointed. The vessel was probably the finest and the best calculated for the enterprise that has ever gone into the Arctic regions; but one fault has been found with her, and that was a deficiency in steam-power. And everything was done that her commander's vast experience could suggest to make her outfit, supplies and crew just what their grand mission demanded. The gallant captain's own estimate of the prospects of this voyage may be gathered from his own words, uttered while the vessel, etc., were in course of preparation.

"I have demonstrated in my own person that white

THE STEAMER POLARIS ON THE EVE OF HER DEPARTURE.







men can live, with no extraordinary sufferings, for years in the depths of the Arctic regions. I have lived there for years, and can teach my associates how to do so. Upon this new expedition I shall be amply provided with all means for a thorough exploration. I shall have with me a scientific observer, a naturalist fully qualified to report upon everything in his department, and an artist and photographer, who will be able to depict everything relating to the Arctic regions. Thus abundantly supplied, and aided by my own experience of more than ten years, I think that I shall be able to accomplish something worthy of the means placed at my disposal."

Secretary Robeson on June 9th, 1871, issued his official orders to Captain Hall; he conveyed them in a letter written in his characteristic style—dignified and explicit, and yet kind and showing a lively interest in the expedition and a full appreciation of its importance and its dangers, as well as of the peculiar fitness of the captain to lead in the vast undertaking. Accompanying the Secretary's letter was one from President Henry of the National Academy of Sciences, with complete detailed instructions for the making of scientific researches and the keeping of an accurate and intelligible record of observations.

The *Polaris* left the Washington Navy Yard on the following day for New York, arriving at the Brooklyn Yard on the 14th. The equipment and final preparations for the hazardous enterprise were pushed rapidly forward, and on the 28th Captain Hall wrote the Secretary that the *Polaris* was "now ready for sea, and will sail to-morrow." He added: "Before leaving port, I cannot forbear expressing my great obligation to you for the intelligent and generous manner in which you have provided for the expedition in all respects. The ship has been, under your directions, strengthened and prepared for the special service upon which she enters in the most approved manner, and is supplied with every appliance to make the

expedition a success. The officers and crew of the ship are all I could desire, and the provision made for the subsistence and protection of all on board is the best that could be devised. Your generous response to every legitimate request I have made in regard to the ship's outfit demands the expression of my warmest gratitude. The only return I can make now is the assurance of my determination, with God's blessing, that the expedition shall prove a success, and redound to the honor of our country and to the credit of your administration."

We have quoted thus largely, deeming it simple justice to put on record Captain Hall's just estimate of the Secretary's "intelligent and generous" care in discharging his duty in fitting out the "United States expedition toward the North Pole."

Confident of his ability to cope with the usual perils of polar navigation and life, and fully appreciating the unexpectedly liberal facilities now at his command, little did he dream of the sad eclipse awaiting his earthly hopes on the eve of their complete fruition. His own bright anticipations did not cast into shade the universal expectations of the people of the entire country. There was but one opinion in all minds, but one sentiment in all hearts; even the constitutionally timorous and the innately doubtful were inspired by confidence and trust; those who seldom take interest in such matters were scarcely outdone by the naturally enthusiastic lovers of adventure and discovery. In fact, the entire heart of the nation beat in unison in joyous certainty of the success of the Polaris expedition, and in wishing the daring *voyageurs* a prosperous voyage, a fruitful exploration and a happy return, when, on the 29th of June, 1871, the staunch steamer moved from her berth at New York to dare the icebergs, fields and flocks of the frigid latitudes. The din of the cannon fired as a farewell was almost drowned in the cheers of the multitude who witnessed her departure



CAPTAIN S. O. BUDDINGTON.



as she proudly went forth, with her colors flying in all their beauty. The day was beautiful, everything propitious, the omens seemed all favorable. A writer in one of the publications of the day expressed the views of all the people when he said, "There is every reason to hope that he (Hall) will be able to solve the remaining problems relating to the Arctic regions. If there be, as there is good reason to suppose, an open sea surrounding the North Pole, and if that sea is accessible to man, by land or by water, we can hardly doubt that Hall, certainly the first of white men, and most likely first of all men, will make his way to it." Captain Hall had for his sailing-master Captain S. O. Buddington, who had commanded the whaler *George Henry* which first took him to the shores of Greenland.

Captain Tyson went on board the *Polaris* at the last moment before leaving, at the earnest solicitation of Captain Hall, to whom he was most loyally devoted, and who induced Secretary Robeson to commission him as assistant navigator—a somewhat anomalous position, but it was readily accepted by Captain Tyson, who attested his readiness to go in any capacity. Captain Hall also took with him again his Esquimaux friends, Joe and Hannah.

The *Polaris* had a safe and pleasant passage, and arrived on the coast of Greenland in due time. Touching at Holsteinborg, July 31st, the captain availed himself of an opportunity to forward a letter to the Secretary of the Navy. He had touched at Tiscanaes to endeavor to secure the services of Hans Christian, the experienced dog-driver and hunter of the Kane and Hayes expeditions, but learned that he should find him at Upernavik awaiting the *Polaris*. The captain was well received by the authorities at the Danish ports, who made cordial offers of such aid as he might require. On the 3d of August the *Polaris* steamed for Godhavn (Port Lively), in the Island of Disco. Here the mind of Captain Hall was much re-



lieved by the arrival of the United States transport Congress, which he had expected to meet earlier, at Holsteinborg. On the 17th the *Polaris* again weighed anchor for Upernavik, where she arrived the next day. Here the captain succeeded in finding and engaging Hans Christian, and he and his family came aboard; he also engaged Jensen, a Dane, who had been a valuable worker in the Hayes expedition. On the 21st, having secured dogs and such other supplies as were requisite for the work before him, Captain Hall fairly entered upon active operations. Steaming across Melville Bay, the *Polaris* entered Smith's Sound. Thence she passed through Kennedy Channel. Thence again she pushed on into what was supposed to be Kane's Open Polar Sea; Captain Hall found this to be only a moderately large bay, and he named it *Polaris Bay*. Farther on, he discovered another bay or strait, about thirty miles across; this he called Robeson Channel or Strait, in honor of the Secretary of the Navy. Up this channel, he succeeded, August 31st, in reaching a higher latitude than any vessel had before attained— $82^{\circ} 29'$ . The energetic captain made several efforts to work his steamer still farther up, but found it impossible; vast floes and fields stretched quite across the strait, and completely blocked up the passage. The *Polaris* became imprisoned in some of these huge fields, and drifted with them down to about  $81^{\circ} 30'$ , when the captain succeeded in extricating her, and steered into a small cove in *Polaris Bay*, in latitude  $81^{\circ} 38'$ ; in this cove, on September 3rd, the captain anchored his gallant steamer for the winter. The name of this harbor was suggested by a very narrow escape from total shipwreck in seeking its grateful shelter; so imminent was the peril that everything was got in readiness to abandon her at a moment's notice. But, "Thank God!" the captain succeeded in saving her and taking her into safe quarters, and he recognized the divine Hand in

the escape by calling the haven Thank-God Harbor. As it often happens, a berg which was formidable enough itself to have destroyed the steamer proved a valuable help in her extremity, and to this Hall gave the appellation of Providence Berg.

With the *Polaris* in safety, Captain Hall began immediate preparations to prosecute his discoveries by means of sledges. He first erected some huts and an observatory, and made such other arrangements as would conduce to the comfort of his men, and at the same time enable his scientific assistants to make their observations and pursue their investigations into the natural phenomena of polar latitudes. Having completed all the arrangements, Hall started on October 10th on an exploring trip with two sledges and fourteen dogs, taking with him his first mate, Mr. Chester, his friend Joe, and Hans. The journey occupied two weeks, during which they traveled almost incessantly. On October 17th they reached latitude  $82^{\circ} 3'$ , and here paused, having on the way discovered a lake and a river; following the serpentine course of the latter, they had come to a bay fully thirty miles in extent, which Hall named Newman Bay; here there were two capes, the southern of which, "a high, bold and noble headland," he called Sumner Headland, while to the northern he gave the name of Brevoort Cape. Finding the mouth of Newman Bay open, and the ice of Robeson Strait in motion, it was impossible to pursue the sledge journey up the strait, while the mountainous nature of the land on the north made traveling in that direction impracticable. Hence, on the 18th, they started on their return to Thank-God Harbor. The farthest point of land discovered by Hall on this sledge excursion was in latitude  $83^{\circ} 5'$ , but he has left no description of that lying beyond  $82^{\circ} 3'$ .

Captain Hall's main object in this sledge journey was to find a direct and feasible route by which he might in the

spring reach or nearly approach the North Pole. Though disappointed partially in this, he yet had the satisfaction of setting foot on land farther north than any white man had before attained, and of discovering a channel which he had reason to believe might prove favorable, in the spring and summer, to the consummation of his great ambition of reaching the pole itself. But ere the spring he went on a longer journey, to a brighter, more genial clime than that of his earthly hopes.

On the 24th of October the party reached the vessel, very much fatigued, but all apparently in good health. Shortly after his arrival, however, the captain found himself quite indisposed, though, not at all alarmed at his symptoms, he did not seek the surgeon, but sought rather the steward and asked for a cup of coffee, thinking that would allay the nausea and dizziness that were distressing him. A very brief extract from the testimony of the steward at the investigation by Secretary Robeson, referred to hereafter, will serve to show the first impressions of that acute observer on the incipient stage of the captain's illness: "He came back on the 24th of October; I met him in the gangway and shook hands with him; he seemed pleased with the way things had been going while he was away; presume he had a good account from Captain Buddington; he thanked the men for conducting themselves so well while away; when he came into the cabin, the heat seemed to affect him very much; the temperature in the cabin was about 60 to 70 degrees; outside it was about 15 to 20 degrees below zero; I think the change of temperature affected him; he asked me if I had any coffee ready; I told him there was always enough under way down stairs in the galley; I asked him if he would have anything else; he said that was all he wanted; I went down stairs and got a cup of coffee; I did not make the coffee; I told the cook it was for Captain Hall; he drank white lump-sugar in his coffee; never cared for

milk; he then took a hot bath, a foot bath, with a sponge; he did not complain of feeling unwell when he drank the cup of coffee; said he felt tired, and soon after lay down for the night; I don't think he was sick that night; he might possibly have been sick without my knowing it; not until a couple of days afterward he had the doctor attend to him; he was not a man to take much medicine; Dr. Bessel attended him; I think it was on the third day when he took to his bed; he was taken down suddenly; I thought it was the heat, and the doctor said it was apoplexy; he might have been paralyzed before he died; I do not remember about that; there were a few times when I thought he seemed to be getting well; I saw him sitting in the cabin dressed and writing; I asked Mr. Morton how he was; we did not eat in that cabin then; we had another place for dining, and I didn't go in very often through the day; I did not see him die, but saw him shortly afterward." He rallied and appeared in a fair way to recover. Indeed, he got so much better that he partially resumed his command. But his convalescence was transient and deceptive, and, in the act of issuing an order to some of his men, he had a relapse.

From this second attack he did not rally, but was almost continuously delirious, until, on the 8th of November, he passed from the scene of his heroic efforts to his eternal home, "Thank-God Harbor" proving to him the port of embarkation for "the bourne whence no traveler returns." Three days later, the cold, frozen shore of Polaris Bay was the scene of a sad ceremony; a solemn cortége composed of those who had dared the perils of the Arctic Seas and lands under his command bore the remains of Captain Charles Francis Hall to their rest in the grave cut in the icy ground; here, assembled around the rude coffin, they joined in the solemn Burial Service of the Protestant Episcopal Church, read by Mr. Bryan. Over his grave they planted a small American flag. Thus, in the sleep of the

cold grave, floats above him the beautiful flag he loved so well in life.

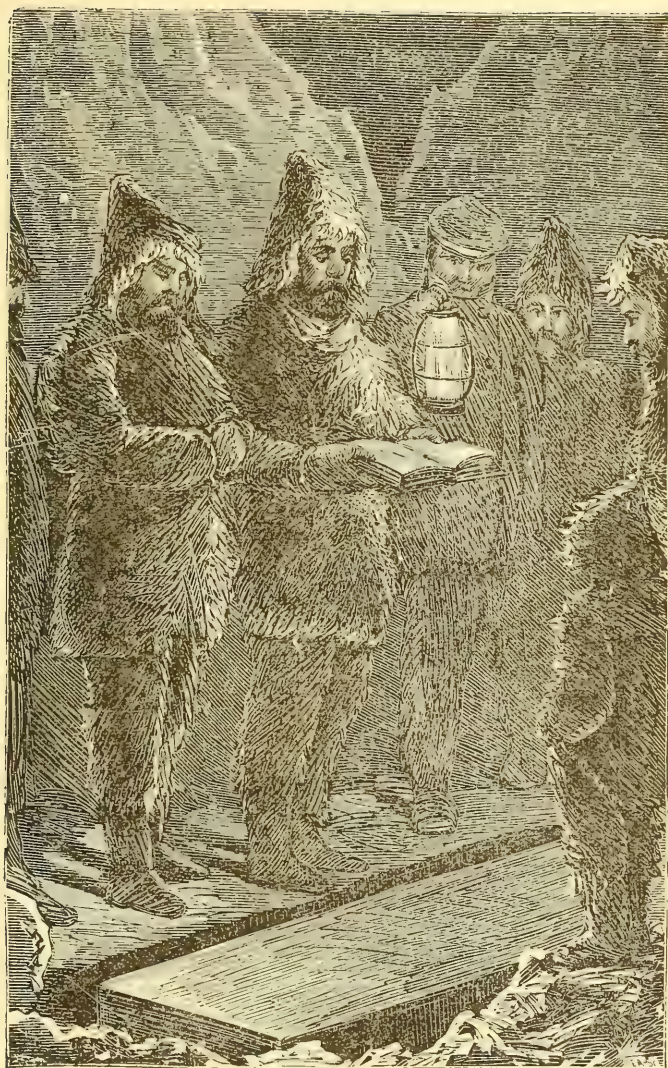
And now, in the soil of the cold, cheerless land to the exploring of which he had devoted his best years, repose the mortal part of one of the most intrepid, most persevering of the many great men whose names are recorded in the annals of fame, and his native land, which honored him living, in the midst of its grief at his early death, cannot but feel a justifiable pride in pointing to his record as that of one of her noblest sons.

Ere we follow the *Polaris* in her subsequent career, let us pause to note what the brave, dauntless, persevering Hall had done for his country's honor, and what he had contributed to the stores of the world's knowledge of those regions that have for so many years claimed the absorbing interest of all civilized lands. In doing this, we shall repeat some facts before recorded in these pages; but a recapitulation will serve to present in a single picture the triumphs of this great man, and will enable us to realize that, though cut off by an inscrutable Providence ere he had reached the goal himself had set, he yet did not live in vain.

How nearly he had attained his purpose, how closely he approached to unfolding the secrets of the Polar Sea and Land, we can easily estimate, even from the imperfect data accessible.

The geographical results of the expedition may be summed up briefly as follows: The open Polar Sea laid down by Kane and Hayes is found to be in reality a sound, which Captain Hall named *Polaris Bay*. This sound is of considerable extent, formed by the somewhat abrupt expansion of *Kennedy Channel* to the northward, and broken by *Lady Franklin Bay* on the west, and on the east by a large inlet, twenty miles wide at the opening, and certainly extending far inland. Its length was not ascertained, and Mr. Meyer thinks it may be in fact a strait extending till it communicates with the *Francis*





SOLEMN BURIAL OF CAPTAIN HALL AMIDST THE SNOWS OF THE  
FAR NORTH.



Joseph Sound of the Germania and Hansa expedition, and with it defining the northern limits of Greenland. This inlet was called the Southern Fiord. The northern point of this bay was named Cape Lupton; its southern point is yet without a name. From Cape Lupton the land trends to the northeast, and forms the eastern shore of a new channel, opening out of the sound above mentioned, to which Captain Hall, as has already been stated, gave the name of Robeson Straits. The western shore of these straits, north of Grinnell Land, is also as yet nameless. Northeast of Cape Lupton, in latitude  $81^{\circ} 37'$ , is a deep inlet, which Captain Hall called Newman Bay, naming its northern point Cape Brevoort, and its southern bluff Summer Headland. The trend of the land continues to Repulse Harbor, in latitude  $82^{\circ} 3'$  north, the highest northern position reached by land. From an elevation of 1700 feet at Repulse Harbor, on the east coast of Robeson Straits, the land continues northeast to the end of these straits, and thence east and southeast till lost in the distance, its vanishing-point bearing south of east from the place of observation. No other land was visible to the northeast, but land was seen on the west coast, extending north as far as the eye could reach, and terminating in a headland nearly  $84^{\circ}$  north. Mr. Meyer also states that directly to the north he observed on a bright day, from the elevation mentioned, a line of light, apparently circular in form, which was thought by some observers to be land, but which he supposed to indicate open water. Besides accurately ascertaining the condition and extent of what was before supposed to be an open Polar Sea, discovering the Southern Fiord to the southeast and Robeson Straits to the north, with another wide expanse of water beyond it, and extending, by examination and survey, the coastline on the east up to latitude  $82^{\circ} 3'$  north, and by observation somewhat farther prolonging the west coast to the northward, and passing with the *Polaris* under steam the

high latitude of  $82^{\circ} 29'$  north, a point far beyond the limits of all previous navigation toward the pole—errors in the shore line of the west coast as laid down by Dr. Hayes, and also errors in the shore line of Greenland as laid down by Dr. Kane, were observed and corrected.

But besides the geographical results, there are others of quite as much importance, embracing valuable information in regard to the natural history, the temperature and the scientific phenomena. It was found that animal life abounded. Musk-oxen were shot at intervals throughout the winter, their food consisting of the moss and other vegetation obtained during the season by scraping off the snow with their hoofs. Wolves, bears and foxes and other animals were repeatedly observed. Geese, ducks and other water-fowl, including plover and other wading birds, were very plenty during the summer, although the species of land birds were comparatively few; there were, however, large numbers of ptarmigan, or snow partridge. No fish were seen, although the nets and lines were frequently called into play in attempting to obtain them. The waters, however, were found filled to an extraordinary degree with marine invertebrata, including jelly-fish and shrimps. Seals were very abundant. Numerous insects were observed also, especially several species of butterflies, flies, bees and insects of like character. Quite an extensive and varied collection of specimens was secured, the store-rooms of the *Polaris* being filled with skins and skeletons of musk-oxen, bears and other animals, different species of birds and their eggs, numerous marine invertebrata, plants both recent and fossil, several varieties of minerals, etc.

The winter temperature was found to be much milder than was expected, the minimum being  $58^{\circ}$  below zero in January, although March proved to be the coldest month. Rain was occasionally observed, only on the land, however. During the summer the entire extent of both low-land

and elevations was bare of snow and ice, excepting patches here and there in the shade of the rocks. The soil during this period was covered with a vegetation of moss, with which several Arctic plants were interspersed, some of them of great beauty, but entirely without fragrance, and many small willows scarcely reaching the dignity of shrubs.

Even more important perhaps than the actual results of this expedition, are the facts established by his experience (as they will doubtless enable other explorers to prosecute the search for the still hidden mysteries of the North Pole and its surroundings), that the Arctic region may be made tolerable and healthful by the use of proper food, that the snow hut of the Esquimaux may be converted into a comfortable home; and when the last barrier shall have been broken down that hides the polar secrets, it will no doubt be admitted that no small share of the honor of the discovery is due to the persistent courage of Charles Francis Hall; and thus he will be awarded that wreath of enduring fame he so truly earned by his entire self-consecration to the great work.

It is known to our readers that when the news of Captain Hall's death was first received in this country the grief and consternation in the public mind was intensified by rumors that he had been poisoned. As ill reports, like ill news, travel apace, it was soon in everybody's mouth that malice, engendered by jealousy or by distaste of his rule, had destroyed the daring and enterprising navigator. Secretary Robeson, with his characteristic promptness, determined to sift these vague charges, and fearlessly to bring the foul deed home to its perpetrator, or to prove their falsity and relieve the absent from their taint. He saw that a thorough investigation alone could effect this, and it was due alike to those who, while far away and thus unable to defend themselves, were accused of a terrible crime, and to the public sentiment which was fearfully



agitated, and in an almost equal degree to the memory of the brave man who had fallen.

The news of Captain Hall's death had been brought by Captain Tyson and his men, who had just been providentially rescued from unparalleled sufferings and perils by the American steamer *Tigress* (of which we give a complete and graphic history in the following chapter). The *Tigress* had carried the rescued explorers to St. John's, Newfoundland. Robeson, unwilling to suffer the investigation to be delayed, at once sent the United States steamer *Frolic* to bring Captain Tyson and his party as speedily as possible to Washington. So resolved was the secretary to have the investigation searching and thorough that he determined to act as chairman of the court of inquiry. He appointed as his associates in the court Commodore W. Reynolds, U. S. N., Prof. Spencer F. Baird, of the Smithsonian Institute, and Captain H. A. Howgate, of the United States Signal Service. This court also took cognizance of the alleged desertion of Captain Tyson and his men on the ice-floe by Captain Buddington, but of this we shall speak in its proper place in the ensuing chapter. Immediately on the arrival of the *Frolic* the court proceeded with the investigation, which lasted six days, and was most searching and exhaustive. We quote from the secretary's report :

"In the course of the examination, which lasted six days, we have taken, separately and fully, upon all the points involved upon which they had or professed to have knowledge, the statement and examination of each adult individual of the party who could understand or speak any English, including all of the persons rescued, excepting the wife of Hans Christian and the children. These statements and examinations were carefully taken down in short-hand at the time." The report concludes: "From personal examination of all the witnesses, and from their testimony as given, we reach the unanimous opinion that

the death of Captain Hall resulted naturally, from disease, without fault on the part of any one.

"All the persons examined testify to the uniform kindness and care of Captain Hall, and to the good order and efficient condition of the *Polaris* while under his command. On the death of Captain Hall, Mr. Buddington succeeded to the command of the *Polaris*, as had been provided for in the instructions for the voyage issued by the Secretary of the Navy."

Thus the vague rumors, and the more positive charges built on them, were swept away, and the people of the country, while sincerely mourning their eminent fellow-American and heartily deploring his death, were relieved from the state of excitement that his supposed murder had naturally produced. The gallant captain's most ardent friends and admirers were gratified to have such indubitable proof that his death had been in accordance with God's own mysterious will, and that human passions had had no hand in hastening it. The charges had had no foundation beyond the ravings of a man in delirium, in which he had spoken of being poisoned; he had also said "the cook has a gun here, and wants to shoot me," and this, impossible as it was, was not more so than the other delirious suspicion. As John Herron testified, "I think every man respected Captain Hall; I do not believe there was any one who would have done anything wrong to him." Captain Tyson, Mr. Meyer and the other witnesses were equally clear on this point, but their testimony is very voluminous, and necessarily uninteresting to the general reader.

As an item of great interest, we insert here a despatch, his last official act, from Captain Hall to the Secretary of the Navy. It is from the original draft, in his own handwriting, found among his personal papers in his writing-desk, which was preserved on the ice by Esquimaux Joe. and by him delivered to Secretary Robeson:

"SIXTH SNOW-HOUSE ENCAMPMENT, CAPE BREVOORT, NORTH SIDE ENTRANCE TO  
NEWMAN BAY, latitude  $82^{\circ} 3'$  north, longitude  $61^{\circ} 20'$  west, October 20, 1871.

*"To the Honorable Secretary of the United States Navy,  
George M. Robeson:*

"Myself and party, consisting of Mr. Chester, first mate, my Esquimaux Joe, and Greenland Esquimaux Hans, left the ship in winter quarters—Thank-God Harbor—latitude  $81^{\circ} 38'$  north, longitude  $61^{\circ} 44'$  west, at meridian of October 10th, on a journey by two sledges drawn by fourteen dogs, to discover if possible a feasible route inland for my sledge to journey next spring to reach the North Pole, purposing to adopt such a route if found better than a route over the old floes and hummocks of the strait, which I have denominated Robeson Strait, after the honorable Secretary of the United States Navy. We arrived here the afternoon of October 17th, having discovered a lake and river on our way. Along the latter our route, a most serpentine one, which led us on to this bay, fifteen miles distant from here, southward and eastward. From the top of an iceberg near the mouth of said river we could see that this bay (which I have named after Rev. Dr. Newman) extended to the high land eastward and southward of that position about fifteen miles, making the extent of Newman Bay, from its headland or cape, full thirty miles. The south cape is a high, bold, and noble headland. I have named it Sumner Headland, after Honorable Charles Sumner, the orator and United States Senator, and the north cape, Brevoort Cape, after J. Carson Brevoort, a strong friend to Arctic discoveries. On arriving here we found the mouth of Newman Bay open, the water having numerous seals in it bobbing up their heads. This open water making close to both Sumner Headland and Brevoort Cape, and the ice of Robeson Strait being on the move, debarred all chance of extending our journey on the ice up the strait. The mountainous land (none other about here) will not admit of our

journeying further north; and as the time of our expected absence was understood to be for two weeks, we commence our return to-morrow morning. To-day we are storm-bound to this our sixth encampment. From Cape Brevoort we can see land extending on the west side of the strait to north twenty-two degrees west, and distant about seventy miles, thus making the land we discovered as far as latitude  $83^{\circ} 5'$  north. There is the appearance of land farther north, and extending more easterly than what I have just noticed, but a peculiar dark nimbus cloud that constantly hangs over what seems to be land prevents my making a full determination. On August 31st the *Polaris* made her greatest northern latitude,  $82^{\circ} 29'$  north, but after several attempts to get her farther north, she became beset, when we were drifted down to about  $81^{\circ} 30'$ , when an opening occurred westward out of the pack, and made harbor September 3rd, where the *Polaris* is—" (A corner of the manuscript is here burned off.)

"Up to the time I and my party left the ship all have been well, and continue with high hopes of accomplishing our great mission. We find this a much warmer country than we expected. From Cape Alexander the mountains on either side of the Kennedy Channel and Robeson Strait were found entirely bare of snow and ice, with the exception of a glacier that we saw, commencing in about latitude  $80^{\circ} 30'$  north, on the east side of the strait, and extending in an east-northeast direction as far as can be seen from the mountains by *Polaris* Bay. We have found that the country abounds with live seals, game, geese, ducks, musk cattle, rabbits, wolves, foxes, bears, partridges, linnings, etc. Our sailors have shot two seals in the open waters while at this encampment.

"Our long Arctic night commenced October 13th, having seen only the upper limb of the sun above the glacier at meridian October 12th.

"This despatch to the Secretary of the Navy I finish at

this moment, 8.23 P.M., having written it in ink in our snow hut. Thermometer outside minus 7°. Yesterday all day the thermometer minus 20° to 23°—that is, 20° minus to 23° minus Fahrenheit.

“C. F. HALL.”

After the interment of Captain Hall, Captain Buddington succeeded to the command of the expedition. The *Polaris* remained at her quarters in Thank-God Harbor during the winter and spring. The winter passed without incident, except a severe gale in the month of November, which caused the *Polaris* to drag her anchors and forced her up alongside an iceberg, from which a spur projected under her bow, holding it securely. Every effort to free her from its unwelcome support proved abortive, and she rode on the rest of the winter with her bow fast and stationary, while her stern rose and fell with the tide. This strained her so that she leaked quite badly in the spring when she got loose. This winter-life in the dark was necessarily very monotonous, and except occasionally when the weather permitted the cleaning of the decks and other similar work, the chief employment of the officers and men was the devising of ways and means of making the time pass as agreeably as possible. Meanwhile, the scientists of the party availed themselves of every opportunity to acquire such information as it was their special province to seek.

The long winter night at length came to an end, but the *Polaris* was as yet so securely closed in by ice that she could not be moved. On the 8th of June, 1872, two boat-crews were organized, the one under Captain Tyson, the other under Mr. Chester. These went forth “to go as far north as they could get.” One of them was lost in the ice soon after starting, but a canvas boat was constructed, and the crews succeeded in reaching Newman’s Bay, where they were detained waiting for the ice to break up and



permit farther progress. Captain Buddington, however, disappointed their hopes by sending them, early in July, written orders to return immediately to the *Polaris*. The shifting of the ice had closed up the channel by which they had come, and Tyson and Chester were compelled to leave the boats, and walk back ; this was a tedious, fatiguing and even dangerous journey. But, after an absence of six weeks, they at last got safely to Thank-God Harbor.

During the absence of Tyson and Chester, the *Polaris* had broken loose from her winter fastenings, and Buddington tried to steam up northward to pick up the boats, but the ice was too plenty and formidable. As soon as the boat-party had returned, Buddington determined to steer forthwith for the United States, and on the 12th of August, 1872, he proceeded to carry out this intention. When he had gone some forty or fifty miles, the ice became very troublesome; and notwithstanding every possible effort was made to prevent it, the *Polaris* became inextricably beset, August 15th, in latitude  $80^{\circ} 40'$ , and was for some time in extreme peril, but was almost miraculously saved, and got again for a while free from the ice. She then steamed southward till, in latitude  $80^{\circ} 2'$ , it became necessary to make fast to a floating field of ice. The vessel drifted with this field down to  $77^{\circ} 35'$ , when they encountered a heavy southwest gale.

Captain Buddington, realizing the possibility of having to abandon the *Polaris*, had provided for the emergency by having a large quantity of provisions, the officers' baggage, guns, amunition, nautical and other instruments, and other portable articles of value, removed to the deck, so that they might easily be passed from the ship to the ice. The boats were also held in readiness, and a canvas shelter was erected on the ice-field.

After several hairbreadth escapes, the crisis came on the 15th of October, when a terrific gale added to the dangers by which the *Polaris* was already environed. The

gale drove the ice in upon her, and she was raised out of the water and thrown over on her beam ends, and was of course entirely unmanageable.

The Innuït women and children were at once sent upon the ice for safety, and the boats, provisions, etc., followed; in the haste, many of the articles were in danger of being lost, and half the crew were ordered to go down on the ice and see to the placing of the goods in comparative safety. Among those sent upon the ice were Captain Tyson and Mr. Meyer, and the Innuits Joe and Hans.

Scarcely had this much been effected when, the night being dark and a blinding snow steadily falling, the gale, still at its height, forced the *Polaris* from her fastenings, and she soon passed from sight.

So forcibly does John Herron, in his testimony before the naval court of inquiry, state the thrilling incidents of this terrible hour that we quote a few extracts :

“ I remember the night we got separated from the ship ; it was the 15th of October ; it was almost altogether dark in that latitude then ; it happened in the evening ; wind was blowing ; cannot say if it was snowing ; it is always drifting there ; the ice came pressing in on our starboard side ; Captain Buddington gave the word for every man to save what he could, and look out for his life ; we had everything brought on deck for such an occasion ; everything was in readiness ; the first thing we did was to place the women and children on the ice, expecting the ship to go down every minute ; next thing we threw over provisions ; we threw them so fast that some of them were getting lost ; Captain Buddington sang out for some of the men to get on the ice ; we got on the ice to move the things back, and then went aboard to get some cooking utensils ; I went aboard to hand some things out ; I had been out again but a few minutes when they sang out, ‘ Lower the boats ; ’ the ice we were on was cracking. The ship slipped anchor, and in three or four minutes we were afloat on dif

ferent pieces of ice; the ship went away in the darkness; we had an immense quantity of provisions, but saved very little of them."

We come now to the most thrilling, soul-stirring record in the entire annals of perilous adventures and wonderful escapes. Indeed, the sufferings, dangers and repeated providential succors of the nineteen human beings, afloat on a field of ice, for six long months, three of them in the darkness of an Arctic winter, with the remarkable rescue by the *Tigress*, form a chapter of such thrilling interest, such absolute fascination, that it has no parallel.



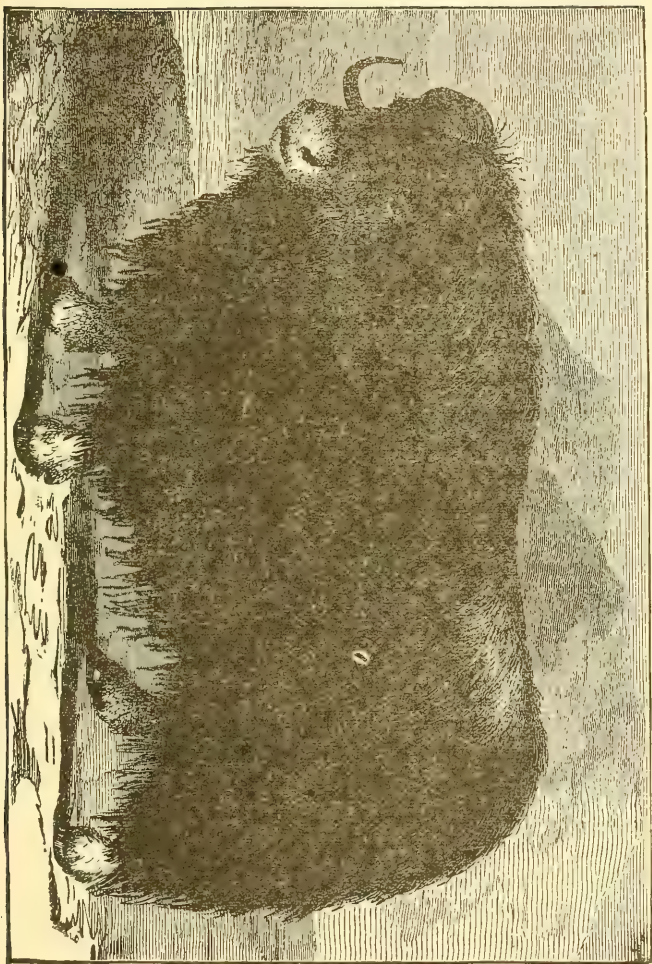


## CHAPTER XXV.

A CHAPTER OF UNPARALLELED SUFFERINGS AND PROVIDENTIAL DELIVERANCES.—TRUTH STRANGER THAN FICTION.—THE EVER-MEMORABLE 15TH OF OCTOBER, 1872.—THE PARTY ON THE ICE.—THE FIELD BROKEN.—THE POLARIS LOST TO SIGHT.—THE SUPPLIES.—UNAVAILING EFFORTS TO REACH THE SHORE.—“PRETTY WELL STARVED.”—JOE AND HANS INVALUABLE MEMBERS OF THE PARTY.—THANKSGIVING DAY.—“VERY WEAK, BUT, PLEASE GOD, WE WILL WEATHER IT ALL.”—CHRISTMAS AND NEW YEAR’S DAY.—“JUST AS WE WERE PLAYED OUT, SOMETHING CAME ALONG; THANKS TO GOD’S HOLY NAME.”—THE LONG NIGHT OVER, THE GLORIOUS SUN APPEARS.—“WE WANT WATER TO ESCAPE, AND, PLEASE GOD, WE WILL GET IT WHEN THE TIME COMES.”—“TO-DAY, GOD HAS SENT US FOOD IN ABUNDANCE.”—THE FLOE BREAKS, AND THE PARTY ARE SCATTERED ON THE PIECES.—THEY TAKE TO THE BOAT AND GET ON A SMALL FLOE.—FORCED TO THROW AWAY CLOTHES AND FOOD.—NO FOOD, NO LIGHT.—WASHED OUT.—CANNIBALISM THOUGHT OF.—A TERRIBLE NIGHT.—THE CRISIS.—THE RESCUE.—SAFE ON BOARD THE TIGRESS, AND AT LAST IN PORT.—THANK GOD, ALL WELL!

TRULY, the night of the 15th of October, 1872, cannot be forgotten in life by any one of the adults of the nineteen human beings who for six weary months were doomed to float about among the icebergs, fields and floes of the northern latitudes, during a considerable portion of the time seeing no sun, but drifting in the gloomy darkness of an Arctic winter, often without food, and with no adequate shelter from the bleak winds and intense frosts. We have seen how, on that night, the gallant *Polaris* was beset by the ice; how a tremendous gale added to her peril; how, in the midst of a blinding snow-storm, with the gale still at its height, first the Innuït women and children, then a large amount of provisions, clothing and other articles were transferred to the field of ice to which she was anchored; how Captain Tyson and a portion of

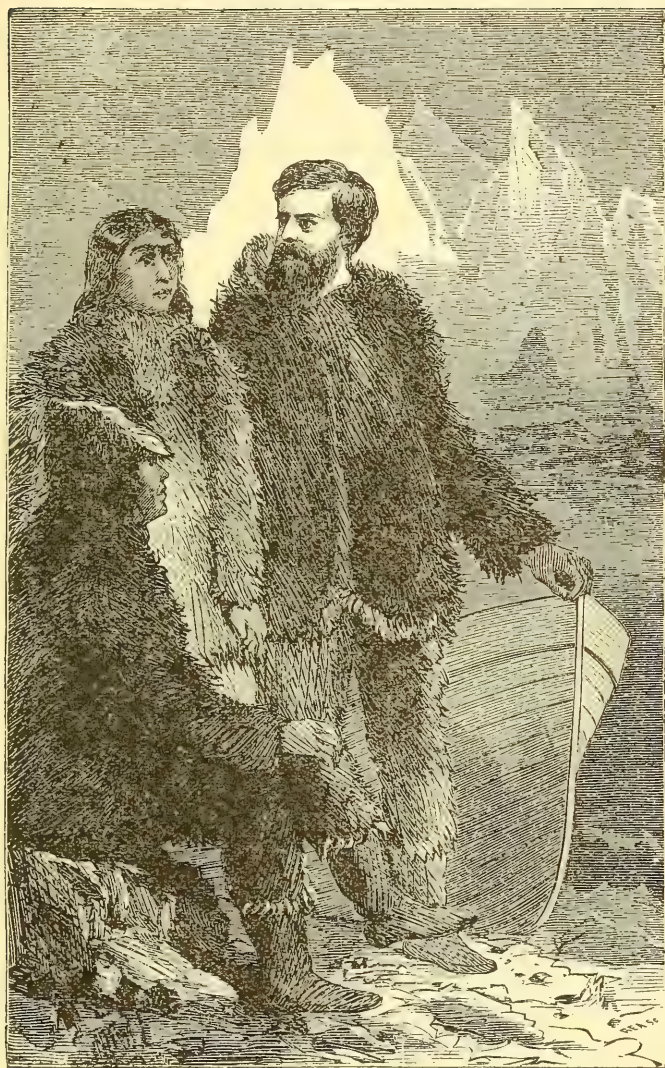




THE MUSK OX.







CAPT. CHARLES FRANCIS HALL AND HIS INNUIT FRIENDS.  
[607]



her crew were sent upon the ice, together with Joe and Hans; how, while they were still busy getting the provisions, etc., to the centre of the field, into comparative safety, a huge berg struck the field, breaking it into many fragments and liberating the *Polaris*; how she was immediately lost to the sight of those upon the ice.

We must now undertake to tell the almost incredibly wonderful story of the unparalleled experiences of the nineteen thus adrift on an ice-raft, from the time of the *Polaris*' passing from view October 15th, 1872, to the happy hour when the *Tigress* landed the entire party at St. Johns, Newfoundland. The simple story, without embellishment—it needs and will admit of none—surpasses in thrilling interest and fascinating romance any work of fiction that the most gifted of writers has ever produced. Some of the events are almost incredible, and require the entire force of the indubitable evidence by which they are supported to establish their claims to belief; indeed, were any writer of fiction to narrate such incidents as abound in this wonderful history, he would be laughed to scorn for inventing absurdities.

We realize the difficulties we shall encounter in depicting the soul-stirring scenes, and in stating, in the most simple terms, the authenticated facts, of this history; but if we err at all, it will not be in exaggerating in the smallest degree.

The company upon the ice-field, or rather upon the fragments of the field, comprised Captain George E. Tyson, Mr. Frederick Meyer (of the scientific staff of the *Polaris*), Joe and his wife Hannah and their child, Hans Christian and his wife, also named Hannah, and their four children and eight men of the *Polaris* crew—in all nineteen, men, women and children. Among the eight last mentioned was the steward of the *Polaris*, John Herron, from whose testimony at Washington we quoted in the preceding chapter. Herron began, on the first day of their remark-

able voyage, a diary, which he faithfully kept till the rescue; in this he jotted down, day by day, every incident he deemed worthy of note, with comments of his own. This diary is not only intensely interesting, but is exceedingly valuable, as it affords a detailed history of the occurrences of each day in its order; its interest is enhanced by the elevated tone of pious dependence on God that pervades the comments of its author. We shall quote some of its more striking notes, and shall be guided by it in the chronological arrangement of the narrative. We give, by way of introduction, Herron's first entry:

*October 15.*—Gale from the southwest; ship made fast to floe; bergs pressed in and nipped the ship until we thought she was going down; threw provisions overboard, and nineteen souls got on the floe to receive them and haul them up on the ice. A large berg came sailing down, struck the floe, shattered it to pieces, and freed the ship. She was out of sight in five minutes. We were afloat on different pieces of ice. We had two boats. Our men were picked up, myself among them, and landed on the main floe, which we found to be cracked in many places. Saved very little provisions.

*October 16.*—We remained shivering all night. Morning fine; light breeze from the north; close to the east shore. The berg that did so much damage half a mile to the northeast of us. Captain Tyson reports a small island a little to the north of the berg and close to the land. Plenty of open water. We lost no time in launching the boats, getting the provisions in and pulling around the berg, when we saw the *Polaris*. She had steam up and succeeded in getting a harbor. She got under the lee of an island and came down with her sails set—jib, foresail, mainsail and staysail. She must have seen us, as the island was four or five miles off. We expected her to save us, as there was plenty of open water, beset with ice, which I think she could have gotten through. In the eve-



ning we started with the boats for shore. Had we reached it, we could have walked on board in one hour, but the ice set in so fast when near the shore that we could not pull through it. We had a narrow escape in jumping from piece to piece, with the painter in hand, until we reached the floe. We dragged the boat two or three hundred yards, to a high place, where we thought she would be secure until morning, and made for our provisions, which were on a distant part of the floe. We were too much worn out with hunger and fatigue to bring her along to-night, and it is nearly dark. We cannot see our other boat or our provisions; the snow-drift has covered our late tracks.

Quite a large supply of provisions had been thrown from the ship on the ice; but owing to the blinding snow and the darkness of the night, the breaking of the ice caused the loss of the greater part. When they first found themselves left on the ice, Captain Tyson and his party were not alarmed, believing that the *Polaris* would return and pick them up if she herself escaped. On the 16th they saw her, and made signals to attract her attention, but to no effect. Many have thought that Captain Buddington willfully deserted them, and left them to a probable death when he might have rescued them. But the testimony of Captain Tyson, Mr. Meyer, John Herron and the others before Secretary Robeson does not afford ground for such suspicions. Herron said distinctly: "I don't think Captain Buddington meant to abandon us; he either thought we could easily get ashore, or else he could not get through the ice; I don't think he would do anything of the kind; standing on the ship, you would naturally think we could get ashore; it may have looked to him that we were right under the lee of the shore; it is very likely that he thought we could get ashore, and that he didn't understand our signals." Finding that the *Polaris* was not coming to them, Captain Tyson thought it pos-

sible for them to go to her, as she lay quite near the shore; the boat was dragged some distance and launched, but the pack-ice was too dense for it to be pushed through, and they had to abandon the attempt. Their floe was drifting steadily to the south and south-west. During the ensuing week nothing notable occurred. There were a goodly number of seals about, and the Esquimaux endeavored to shoot some, but succeeded in getting but three. Their floe coming into contact with fast ice, an attempt was made to reach the shore, but the ice was too thin to bear them. On the 23d they discovered their other boat and tent, on a separate floe, with some dangerously thin ice between; but knowing that there was a considerable supply of provisions with the tent and boat, while the tent and boat would themselves be useful, a determined effort was made to reach them, which resulted in success. On the strength of the large addition to their stores thus secured the whole party indulged in a hearty meal. At the tent, too, there was some lumber, so, on the next morning, four of the men were sent to bring over planks to build a sledge, and the sledge was put into requisition to carry over additional articles from the tent, trips being made daily, until, on the 27th, they had brought over to the main floe the tent and everything they could find.

The morning of the 31st broke beautifully, though it was very cold. A party was sent out to test the strength of the ice between the floe and the shore, with a view to an effort to reach the latter by means of sledges and dragging the boats laden with their stores. They thought that on the shore they should be able to procure game, and thus have fresh meat, which was a rare treat on the ice. The scouts appear to have brought back a favorable report, as on the day following the effort was made, the first objective point being a large ice-field which lay about four miles from their floe, and about one-third nearer the land. After a day's hard work, they got started, with the

two boats loaded with their provisions and the sledge with bedcovering, skins, canvas and poles. They had to leave a good deal of valuable stuff behind for want of transportation. They had not made much headway before the breaking of the ice compelled them to return to their former quarters. Then a severe snow-storm set in, and they abandoned all idea of moving from their floe for a time. On the 6th of November they were somewhat alarmed by Captain Tyson becoming suddenly ill. He soon recovered. A seal caught by Joe proved quite a godsend. To make time pass more cheerily, Mr. Meyer made a pack of cards out of some stout paper, and the men amused themselves with euchre. After the snow-storm they utilized the snow by building huts, which materially enhanced their comfort. For some days nothing out of the ordinary routine occurred. The weather was bad and kept them close prisoners in their snow-huts. Meanwhile, their ice-raft was drifting swiftly to the south, and land disappeared. Joe and Hans, their fresh-meat providers, were unable to procure seals or any other animals; they saw seals and bear and fox tracks, but nothing came within their reach. On Tuesday, November 19th, there was some excitement among the men in consequence of the Esquimaux falling in with two bear tracks and five seal holes. As the provisions were getting short, and the party were suffering terribly from cold and hunger, what a God's blessing it would be if a bear could be shot or a seal or two caught! How tantalizing it was to see these evidences of bears and seals and not be able to reach them! Their dogs got ravenously hungry and attacked their already diminished stores, and they found it necessary to shoot five of them. This was a serious loss, as dogs would prove very valuable in the event of an opportunity to reach the shore on ice; they had but four dogs left now, and five days later had to shoot two of these.

John Herron's diary tells the story of Thanksgiving

day concisely, and so well that we copy it instead of attempting to tell it ourself :

*"Thursday, Nov. 28.*—Thanksgiving to-day; we have had a feast—four pint cans of mock turtle soup, six pint cans of green corn, made into scouch. Afternoon, three ounces of bread and the last of our chocolate—our day's feast. All well."

The next day, the 29th, they did not fare so well; they had to be content with boiled seal-skin; but the thickness of the hair baffled the masticatory powers of some of them.

We make further extracts from the same source, showing the straits they were reduced to :

*"December 2.*—No open water has been seen for several days; cannot catch anything. Land has been seen for several days; cannot determine what shore it is, E. or W. It has been so cloudy that we cannot select a star to go by; some think it is the E. land; for my part, I think it is the W. Boiled some seal-skin to-day and ate it—blubber, hair and tough skin. The men ate it; I could not. The hair is too thick, and we have no means of getting it off.

*"December 5.*—Light wind; a little thick; 15° below zero. A fox came too near to-day; Bill Lindemann shot him; skinned and cut him up for cooking. Fox in this country is all hair and hair.

*"December 6.*—Very light wind; cold and clear. The poor fox was devoured to-day by seven of the men, who liked it; they had a mouthful each for their share; I did not think it worth while, myself, to commence with so small an allowance, so I did not try Mr. Fox. Last night fine northern lights.

*"December 8.*—All in good health. The only thing that troubles us is hunger—that is very severe; we feel sometimes as though we could eat each other. Very weak, but, please God, we will weather it all.

*"December 13.*—Light wind; cloudy; 19° bel. zero. Hans

caught a small white fox in a trap yesterday. The nights are brilliant, cold and clear. The scene is charming, if we were only in a position to appreciate it.

*"December 20.*—Light wind; cloudy. Joe found a crack yesterday and three seals. Too dark to shoot. It is a good thing to have game underneath us. It would be much better to have them on the floe for starving men.

*"December 22.*—Calm and clear as a bell; the best twilight we have seen for a month. It must have been cloudy or we are drifting south fast. Our spirits are up, but the body is weak; 15° below zero."

They began now to count the days until they could expect the sun to shine forth, with how much joy we can partially imagine, when we recollect that for nearly three months he had hidden his glorious face, and they had been groping in the darkness of an Arctic winter. John Heron must tell us of their Christmas and New Year's days:

*"December 24.*—Christmas Eve. We are longing for tomorrow, when we shall have quite a feast—half pound of raw ham, which we have been saving nearly a month for Christmas. A month ago our ham gave out, so we saved this for the feast. Yesterday, 9 degrees below zero; to-day, 4 degrees above zero.

*"December 25.*—This is a day of jubilee at home, and certainly here for us; for besides the approaching daylight, which we feel thankful to God for sparing us to see, we have quite a feast to-day—one ounce of bread extra per man, which made our soup for breakfast a little thicker than for dinner. We had soup made from a pound of seal blood, which we had saved for a month; a two-pound can of sausage meat, the last of the canned meat; a few ounces of seal, which we saved with the blood, all cut up fine; last of our can of apples, which we saved also for Christmas. The whole was boiled to a thick soup, which I think was the sweetest meal I ever ate. This, with half pound of ham and two ounces of bread, gave us our Christ-



mas dinner. Then, in the evening, we had our usual ~~thin~~ soup. So ended Christmas Day.

*"January 1, 1873.—*Poor dinner for New Year's Day—mouldy bread and short allowance."

An observation made by Mr. Meyer on the evening of January 6th showed that their floe had drifted into latitude  $72^{\circ} 7'$  north, longitude  $60^{\circ} 40' 45''$  west. This was such good news that our friend John says that he treated himself to an extra pipe of tobacco; he still seems to write in most happy spirits, although the thermometer was down to 31 below zero, with no fire; they had even to cook their scanty meat by means of a lamp. His entry for January 16th is well worth a place:

*"January 16th.—*No wind; very thick. The glass ranges from 26 degrees to 31 degrees below zero. Hans caught a seal to-day, thank God, for we are very weak. Our light would have been finished to-morrow, and our cooking also. But God sent this seal to save us; thanks to his holy name! It has been so all the time. Just as we were played out something came along. I am afraid I have a touch of the scurvy. A little raw meat will drive it out, I hope."

There is little of moment to record about this time, but Herron's diary scarcely flags in interest; a few short items will certainly prove interesting, as they show the hopes and fears and the unwavering trust in God of this good man:

*"January 19.—*Clear; light wind; 39 degrees below zero. The sun has made his appearance to-day. We gave him three cheers, hoping we will be able to start a month from now. Thank God for this day! we have long wished to see it. The sun has brought us luck in the way of a seal Joe caught. The finest display of northern lights that I ever saw came off to-night. A party went about six miles to-day to open water, where they saw many seals.

*"January 20.—*Light wind north; very cloudy and thick;



CAPTAIN GEORGE E. TYSON.



34 degrees below zero. The sun has not made his appearance to-day. We have not seen the east shore yet. I hope to see the island of Disco; the land is very high there, but I am afraid we will drift past it. We cannot help ourselves, however. We are in the hands of God, and I am thankful. Hans shot a dovekie. I hope he will give it to his boy.

*"January 27.*—Calm; very cold; mercury frozen; thick this morning; clearing up now. The sun is out. Mr. Meyer took an altitude of the sun to-day and an observation from a star last night. He makes it latitude  $69^{\circ} 32'$ . Godhavn, in the island of Disco, is in  $69^{\circ} 13'$ , that leaves us nineteen miles north of our storehouse, which I am afraid we will never see. God knows where we will fetch up. Mr. Meyer thinks we are forty-two miles from the east shore; but I am afraid he does not know much about it.

*"February 4.*—A gale from the west; very thick snow-drift. I seldom see it snow here, for when it is blowing hard the snow comes like flour with the wind. Whether the snow falls or the wind takes it up from the ice I cannot tell, but it is so fine and thick you cannot see. There is no leaving the hut in such weather, as the snow is always either drifting or falling with the blow no matter from what quarter. Then there is no going out, as it fills the eyes, and will penetrate almost anything. The temperature to-day has been from  $16^{\circ}$  to  $10^{\circ}$  below zero. All are well, thank God, but me. I have a slight touch of the scurvy and feel very ailing, but, please God, it will soon leave me. We hope when this blow is over we shall see the land and have a little open water."

On the 7th, Hans secured a fine seal, and shot a large narwhal, or sea-unicorn, but he turned belly up and sank. The half-starved party felt this as an actual loss, as this one narwhal would have supplied food for nearly a month. The next day five or six more were shot, but all got away under the ice. On the 16th, a large number of ~~whales~~

were seen, but they were an unwelcome sight, as Herron tells us, "they frighten away the seals, which we are so badly in want of." They had been expecting to see land for days, but none was visible as yet, while the ice around them was piled up "as high as the mast of a ship." No wonder that even John Herron's heroic courage faltered; still his trust in God would not abate: "We want water to escape, and, please God, we will have it when the time comes." At last, on the 19th, the welcome shout "Land ho!" filled their hearts with joy. It was thought to be Cape Walsingham. The next day it had again passed from sight—we let our friend John speak:

*"February 20.*—Calm and very thick. Water around; cannot see land. The seals are very scarce here. I hope we will soon strike better ground. We must soon get a good lead of water running in shore, and so escape, or kill plenty of seals to live on, or else our time in this world will be short. But God's will be done. Shot some small birds yesterday and to-day, called dovebies. Temperature  $11^{\circ}$  to  $4^{\circ}$  below zero."

For the next three days the land was not visible, but on the 24th it was again seen. The sight was, however, tantalizing. It appeared to be about twenty miles off, and a large quantity of light snow that covered the ice made it impossible to pull a boat any distance. Herron's diary note of this date shows that, while he cheerfully acquiesced in the decision of Captain Tyson and the majority of the party, he thought (and the Esquimaux secretly agreed with him) it the better plan to leave the boats behind, and, making a light sleigh out of skins, endeavor to reach the shore; it also shows his justly high estimate of the invaluable services rendered the party by Joe and Hannah:

*"February 24.*—Very light wind; thick; below zero. Can see the land, but cannot start. Such a quantity of light snow has fallen, and you sink into it so, that it would be impossible to get the boat through it. Land is twenty



miles off, I should say, and we appear to be leaving it. My advice is to start for it—making a sleigh out of some spare skins, loading it with provisions and clothing, and the rake to ferry us across the cracks; also ammunition for hunting purposes when we get on shore. By that means we could leave the boat and travel light, for it is my opinion that we will never get the boat over the ice any distance. We seem to have left the sealing ground. We cannot catch anything to speak of, and we have only three weeks' provisions left. Captain Tyson and some of the men are afraid to venture in shore and unwilling to leave the boat; so we have made up our minds to stay, come down in our provisions and trust in God, hoping we may drift on a better sealing ground, and thus live through it. I asked the Esquimaux' opinion about it—what they would do if they had not us to influence them. They told me they would start for land directly they saw it. They do not like to speak their minds openly for fear something might happen, meaning they would be blamed for it; so they are silent, following only the advice and opinions of others. Joe is very much to be praised; also his wife Hannah. We may thank them and God for our lives and the good health we are in. We could never have gotten through this far without them. If we ever get out of this difficulty they can never be paid too much. Joe caught a very small seal, which makes the eighth this month. Northern lights very brilliant to-night. All well."

They found it necessary to split up one of their boats for fuel. As we have before intimated, seal-oil was their chief fuel—it gave them light and the means to cook such food as they had, and to melt ice for water; hence the scarcity of seals caused them no little distress, independent of their value as food.

On the 28th, Hans discovered the track of a large bear, and a party started in pursuit. He broke through the thin ice at a crack and swam away—a sad disappointment

to the hungry pursuers. They succeeded, however, in shooting a number of dovebies, which, with a few they had been saving for some days, made enough for one fair meal, and nearly enough for a second. The dovebies are a small bird, little prized for eating when men have the privilege of choosing, but, under the circumstances, our friends of the ice-raft were thankful even for them. The allowance was two per man (or woman), and were quite palatable boiled in the soup which was the usual fare in the ice-raft hotel. The following Sunday, March 2d, the entire party were made happy by Joe, who had the good fortune to shoot what Herron styles an "oogjook," probably a species of seal; but whatever it was, it was so large that it required the combined strength of all the men to get him "home." Besides the oogjook, they secured forty-two dovebies. John says that they now had "plenty of meat and oil;" and as we have seen, the latter was an important article to our ice-navigators. He adds: "That was a good Sunday's work—dragging the fine fellow to the hut, and thanking God for his mercies. All well and happy." On the 5th a violent gale from the northwest, with a heavy snow-drift, kept all but Joe within the hut; Joe could not be kept in. Herron says of Joe: "He is a first-rate fellow. We should have been dead men long since, had it not been for him." The thermometer got down to 30° below zero. On the 6th the entire party were quite sick with headache and general derangement of their stomachs, caused by eating the liver of the "oogjook;" possibly in their half-starved condition they had eaten too much. Herron's note on the 7th shows that the gale had abated, but a stiff breeze still kept the snow drifting. He says: "There are immense icebergs all around our floe. There was a fearful noise all last night, which kept us awake; the floe was cracking, splitting and working in the most fearful manner, just like a park of artillery and musketry; I expected every moment to see it split into a

thousand pieces. I feel very bad yet in my head and stomach. The liver of bear and oogjook, they say, is very dangerous to eat; but what is a hungry man to do? We have eaten the seals, hair, skin and everything about them, and been glad to get them." The night of the 10th was a horrible one. We let John Herron tell the story of the 10th, 11th and 12th:

"*March 11.*—Blowing a strong gale yet. All hands were up last night and dressed, ready for a jump, for the ice was splitting, crashing and making a fearful noise all night. To-day has been a fearful day—cannot see, for snow-drift. We know the floe is broken into small pieces. We are afloat, jumping and kicking about. This is not very pleasant. My hope is in God. Thermometer 6 degrees above zero.

"*March 12.*—Last night was a fearful night of suspense—ice creaking and breaking, the gale roaring and the water swashing, but where? We know it is around us, but we cannot see anything. Since one o'clock this morning the wind has been going down, thank God! and now I can see around. A nice picture! Everything broken up into small pieces. The best piece we are on. The huts are nearly covered. Afternoon.—It has calmed down to a fine day, with a light breeze. Joe caught two seals, and Hans caught one. Captain Tyson also caught one. Joe caught three dovekies and the cook two, showing how good God is to us. From 6 to 10 degrees below zero."

We cannot but recognize the hand of God in the escape of the entire party in such imminent perils—not one lost, though there were two women and five helpless children in the party. Thus, all safe, on the largest piece of their floe which had so long borne them, the following ten days passed without incident, until, on the 22d, we find the following in John's diary:

"*March 22.*—Splendid day; very light wind, west-northwest. The first day of spring; thank God we have

lived to see it—The sun shines very powerfully! at least I think so. 10 degrees to 12 degrees below zero. Joe caught two seals to-day.”

They now were in a better state as regarded food, as seals were secured almost daily.

On the night of March 30th there was a terrific gale, and a huge iceberg within ten or twelve yards of the hut, and grinding against the floe, threatened the ice-raft with total destruction, in which case certain death awaited all. The men, however, succeeded in launching the boat, and awaited the anticipated doom, but the floe, although reduced again in size, was saved. A huge “bladdernose” and her pup got on one end of the floe, and when approached, she showed fight, but was fortunately shot and secured. A considerable amount of milk was obtained from her, and that night the men had some excellent soup, and also some good sausage made from the bear that had been previously shot. On March 31st an observation made by Mr. Meyer showed that for the previous five days the party had drifted 23 miles per day. The ice-raft was steadily getting smaller and smaller, to the great fear of the party, and it seemed as though the voyagers were drifting out into the open ocean. They were nearly off Cape Farewell, and a very heavy sea had the effect of driving off all vestiges of ice from the vicinity of their floe for the time being; the morning brought much of it back.

The strong wind and rough sea made their position on the ice critical, and yet rendered it impossible to take to the boat; as Herron says, their only course was to “watch and wait, and trust in God.” They were still catching seals and their calves from the floes passing them. We let the diary speak for the 1st and 2d of April:

“April 1.—Wind northwest. A fearful night last night. Cannot stay on our floe; must leave it at once. Got under way at eight A.M. the boat taking in water.

Loaded too deep. Threw overboard 100 pounds of meat; must throw away all our clothes. Cannot carry anything but the tent and a few skins to cover us with, a little meat and our bread and pemmican. Made ten to fifteen miles south and three or four miles west from eight A.M. to twelve noon. We landed (that is, on a floe) to lighten our boat, pitched our tent, and intend stopping all night. Caught a young seal as soon as we got on the ice. When we left this morning, 12 degrees above zero. This afternoon spent in making from canvas washboards for the boat to keep her dry. Caught two more seals. This piece of ice is not very safe; it is cracking. All well. Splendid weather this afternoon.

"*April 2.*—Lovely last night. The floe lost several pieces. I could not sleep for two reasons—the ice breaking up and too cold. Had to keep in motion to keep warm. Started at five A.M.; the weather very fine and calm. Worked the oars for two hours; then a breeze sprung up, and increased until it blew almost a gale. We made several narrow escapes with our boat before we could find a piece of ice safe to land on, and when we did she was making water fast. When emptied, we found a hole in her side, which we are repairing this afternoon. Weather still very bad. We are in a very bad fix. Caught a seal. All well."

The loss of their hut in deserting their ice-raft rendered almost constant exercise needful to avoid freezing. They, however, constructed temporary huts when they stopped long enough on a floe. We turn to the diary again, and this time make a long extract; the horrors of the days and nights from the 1st of April to the 10th can be told best by one who shared in them:

"*April 3.*—Repaired our boat, and started at 8.45 A.M., wind ahead; yesterday S. W.; to-day calm. Pulled three hours, when a breeze sprung up from N. N. W. We kept under way until 2.30 P.M., when we had to haul up on a



piece of a floe. We were beset by the ice, and could not get through, so we encamped for the night. The wind is now fair for us, N. N. E., but we cannot get through the ice. I hope for better luck to-morrow. We take seals when we want them, old or young, so that it is not necessary to croak any more until they get more scarce.

"*April 4.*—Wind N. E.; favorable for us, but I am sorry to say we cannot start. The ice surrounds us; the ice opened at 8.30, and we got under way at 8.45 A. M. After two hours' good run we are beset in the ice again, and have to stop for the present, hoping it will open to-morrow. Mr. Meyer took an observation, latitude  $56^{\circ} 47'$ . The wind is springing up; I am afraid we shall have bad weather.

"*April 5.*—Blowing a gale from the N. E., and a fearful sea running. Two pieces broke from the floe. We are on one close to the tent. At 5 A. M. removed our things to the centre. Another piece broke off, carrying Joe's hut (just built) with it; luckily, it gave some warning, so that they had time to throw out some things before it parted. A dreadful day; cannot do anything to help ourselves. If the ice break up much more, we must break up with it; set a watch all night.

"*April 6.*—Wind changed to N. W.; blowing a very severe gale. Still on the same ice; cannot get off. At the mercy of the elements. Joe lost another hut to-day. The ice, with a roar, split across the floe, cutting Joe's hut right in two. We have but a small piece left. Cannot lie down to-night. Put a few things in the boat, and now standing by for a jump; such is the night.

"*April 7.*—Wind W. N. W.; still blowing a gale, with a fearful sea running. The ice split right across our tent this morning at 6 A. M. While getting a few ounces of bread and pemmican we lost our breakfast in scrambling out of our tent, and nearly lost our boat, which would have been terrible. We could not catch any seal after

BEAR HUNTING IN THE POLAR REGIONS.





the storm set in, so we are obliged to starve for a while, hoping in God it will not be for a long time. The worst of it is we have no blubber for the lamp, and cannot cook or melt any water. Everything looks very gloomy. Set a watch; half the men are lying down, the others walking outside the tent.

"*April 8.*—Last night, at twelve o'clock, the ice broke again between the tent and the boat, which were close together—so close that a man could not walk between them. There the ice split, separating the boat and tent, carrying away boat, kayak and Mr. Meyer. There we stood, helpless, looking at each other. It was blowing and snowing, very cold, and a fearful sea running. The ice was breaking, lapping and crushing. The sight was grand, but dreadful to us in our position. Mr. Meyer cast the kayak adrift, but it went to leeward of us. He can do nothing with the boat alone, so they are lost to us unless God returns them. The natives went off on a piece of ice with their paddles and ice-spears. The work looks dangerous; we may never see them again. But we are lost without the boat, so that they are as well off. After an hour's struggle we can make out, with what little light there is, that they have reached the boat, about half a mile off. There they appear to be helpless, the ice closing in all around, and we can do nothing until daylight. Daylight at last—3 A. M. There we see them with the boat; they can do nothing with her. The kayak is the same distance in another direction. We must venture off; may as well be crushed by the ice and drowned as to remain here without the boat. Off we venture, all but two, who dare not make the attempt. We jump or step from one piece to another as the swell heaves it and the ice comes close together, one piece being high, the other low, so that you watch your chance to jump. All who ventured reached the boat in safety, thank God! and after a long struggle we got her safe to camp again. Then we ventured for the

kayak, and got it also. Mr. Meyer and Fred Jamkins fell into the water. Luckily, we had two or three dry shirts left, so that they could change. Most every man is more or less wet. Have taken our tent down and pitched it on the middle of our little piece of ice, with our boat alongside. Joe has built another hut alongside the tent. We have made our breakfast on a few ounces of pemmican and bread. Have set a watch, and the remainder of us have laid down to get some sleep, which we are in need of. Wind W. N. W.; still blowing a gale. I think there is a northeaster outside, by the way the pass has closed.

"*April 9.*—Things were quiet last night. Wind N. W.; blowing a N. E. gale outside. The sun has shown himself for a few minutes. Mr. Meyer shot him; latitude  $55^{\circ} 51'$  north. The sea runs very high, threatening to wash us off every minute. We are in the hands of God; may he preserve us! The ice is much slacker, and the water is coming nearer. Things look very bad. God knows how the night will end. Evening.—Washed out of our tent; Hannah from her snow-hut. Have gotten everything in the boat ready for a start; she can never live in such a sea. The sun has set very good. Land in sight. It has cheered us up. The women and children are in the boat. We have not a dry place to walk about, nor a piece of fresh-water ice to eat. The sea has swept over all; the ice is closing in fast; the wind and sea going down. Midnight, twelve o'clock.—Things look so quiet and the ice so closed around that we have pitched our tent, intending to have a sleep, for we are worn out."

The 10th brought slight relief in the abatement of the gale. The ice still beset them, however, and no movement in the boat was practicable. The succeeding days, till the 14th, showed no change, and no opportunity offered either to escape from their little ice-cake or to procure seals. Of the 14th, 15th, 16th and 17th, the diary tells the story graphically and briefly:



"*April 14.*—Wind light; north; the pack still closed no chance of leaving here yet. See one or two seals every day, but cannot get them, as the ice will not allow us to go through or over it. Weather very fine; sea calm, or, I should say, the ice, as there is no water; latitude  $55^{\circ} 13'$  north. Our small piece of ice is wearing away very fast; our little provisions are nearly finished. Things look very dark; starvation very near. My trust is in God; he will bring us through. All well.

"*April 15.*—Nearly calm; very light wind, north. The ice the same; no change. Cold last night; snow fell very thick; thought we would have a change in the weather. The sun shines as bright as ever. Splendid weather for making a passage, but we cannot start. Latitude  $54^{\circ} 58'$  Mr. Meyer looks very bad. Hunger seems to have more effect on him than on the rest of us; he gets weak-looking.

"*April 16.*—Wind increasing a little from north-north-west. The ice still the same; no swell on. My head and face have been swollen to twice their usual size. I do not know the cause of it, unless it is the ice head-pillow and the sun. We keep an hour's watch at night. Some one has been at the pemmican on watch, and I can put my hand on the man. He did the same thing during the winter, and on the night of the 7th I caught him in the act. We have but few days' provisions left. We came down on them this morning; rather weakening work, but it must be done to save life as long as we can, which cannot be much longer unless something good comes along, which I hope may soon happen. The only thing that troubles me is the thought of cannibalism. It is a fearful thought, but may as well be looked boldly in the face as otherwise. If such things are to happen, we must submit. May God save us!

"*April 17.*—Light breeze from the west-southwest. The ice the same; no opening yet. Latitude  $54^{\circ} 27'$  north. We shot the dogs last winter for stealing the provisions.

If I had my way, with the consent of all hands, I would call out and shoot down that two-legged dog who has since been at them. I see most of the men have their faces swollen, but not so badly as mine. All well, but growing very weak."

On the morning of the 18th, on "turning out," a sight met the gaze of the party that caused them to return hearty thanks to God: it was land not very distant. A little later the atmosphere thickened and the land itself vanished from sight for a time, but there were not wanting evidences of its proximity. A crow, two smaller land-birds, and a flock of about one hundred and fifty canvas-back ducks, were seen; they came within range of vision, but not of shot, and hence our friends had to be content with the treat of seeing these signals from the shore. Though not fortunate enough to secure a meal of canvas-backs, thanks to Joe's quick eye, his daring and his skill, their hunger was relieved by a fine seal, which also enabled them to replenish their lamps and obtain some water by melting ice. The prize was carefully divided. Herron says, "We then cooked some good soup from what, at other times, I should have called offal;" they had learned to utilize every part of a seal except the gall. "The *mess* was highly relished." They then "turned in for the night, thanking God for his protection and goodness, to dream of friends and of happy days to come." On the night of the 19th, a rough sea, with a very heavy swell from the northeast, gave token of a gale in that quarter, though a light wind from the northwest prevailed in their immediate vicinity. The terrible effect of the swell is forcibly depicted in the diary:

"*April 20.*—The wind here from the northwest. Blowing a gale in the northeast. The swell comes from there, and is very heavy. The first warning we had—the man on watch sang out at the moment—a sea struck us, and washing over us, carried away everything that was loose.

This happened at nine o'clock last night. We shipped sea after sea, five and ten minutes after each other, carrying away everything we had in our tent, skins and most of our bedclothing, leaving us destitute, with only the few things we could get into the boat. There we stood from nine in the evening until seven next morning, enduring, I should say, what man never stood before. The few things we saved and the children were placed in the boat. The sea broke over us during that night and morning. Every fifteen or twenty minutes a sea would come, lift the boat and us with it, carry us along the ice, and lose its strength near the edge and sometimes on it. Then it would take us the next fifteen minutes to get back to a safe place, ready for the next roller. So we stood that long hour, not a word spoken, but the commands to "Hold on, my hearties; bear down on her; put on all your weight," and so we did, bearing down and holding on like grim death. Cold, hungry, wet and little prospect ahead. At seven o'clock there came close to us a small piece of ice, which rode dry, and we determined to launch the boat and reach it or perish. The cook went overboard, but was saved. All well. Tired and sleepy.

"*April 21.*—Last night and yesterday all hands wet. Nothing dry to put on to-day. There is little to dry, but we have stripped off everything we can spare, and are drying it. The men are divided into two watches, sleeping in the boat and doing the best we can. Hunger disturbs us most. Nice breeze from the northeast. The ice around very pressing and thick. We cannot get the boat through, and must remain for a change. The sun has shown himself only sufficiently to get an observation; latitude  $53^{\circ} 57'$ ."

Truly, their state was terrible in the extreme, and Herron's trust in Providence was apparently clouded, though it soon regained its healthy tone.

"*April 22.*—Weather very bad. Last night commenced

with snow squalls and sleet and finished with **rain**. Rained all the night and until twelve o'clock **to-day**. Still remains very thick. The ice in pash inclosed around us. It appears to me we are the sport and jest of the elements. The other night they played with us and our boat as though we were shuttlecocks. Men would never believe, nor could pen describe, the scenes we have passed through and yet live. Here we are, half drowned, cold and with no means of shelter. Everything wet and no sun to dry it. The scene looks bad. Nothing to eat; everything finished. If some relief does not come along, I do not know what will become of us. Fearful thoughts enter my head as to the future. Mr. Meyer is starving; he cannot last long in this state. Joe has been off on the ice three times to-day, the little way he can get, but has not seen anything. Chewed on a piece of skin this morning that was tanned and saved for clothing; rather a tough and tasteless breakfast. Joe ventured off on the ice the fourth time, and after looking a good while from a piece of iceberg, saw a bear coming slowly toward us. He ran back as fast as possible for his gun. All of us lay down and remained perfectly still, Joe and Hans going out some distance to meet the bear. Getting behind a hummock, they waited for him. Along came Bruin, thinking he was coming to a meal instead of furnishing one himself. Clack, bang! went two rifles, and down went Bruin to save a starving lot of men. The Lord be praised! this is his heavenly work. We cannot catch seal for the pack ice, and we are on a bad sealing ground. He therefore sends a bear along where bears are seldom seen, and we certainly never expected to find one. The poor bear was hungry himself; there was nothing in his stomach. Joe, poor fellow, looked very much down on our account. Everything looks bright again but the atmosphere; it looks threatening.

*"April 23.—Wind east-northeast, and later in the day*

north-northeast, where I hope it will remain. The weather still disagreeable, full of rain squalls and cloudy. Living nearly on raw bear meat. Everything wet, but brighter days coming soon. It cannot last much longer. Here we are surrounded with the miserable pack ice and cannot get free. All well.

"*April 24.*—Wind north-northeast; sometimes hauls around to north. Raining all night and to-day. Everything wet for some days past, and no chance of drying it. Saw a large school of ducks at four A.M., and another later in the day. Cannot be far from land; we have been allowed to see it sometimes, but were driven off again. There was a fine lead of water last night. I thought we were going to have a change, but it soon closed up again. Another lead to-day, but farther off."

The crisis seemed to be rapidly drawing near. Their little ice-cake, already too small for the erection of a hut on it, was wasting away hourly, and at last, on the 25th, the gale reached them, and they were compelled at great risk to embark again in their boat. There was fearful hazard in this, but it was safer than attempting to ride out the gale on their reduced ice-cake. But, as the darkest hour is just before dawn, a glimmer of hope on the 26th was succeeded by a brighter promise on the 28th. They had reached the sealing grounds, and might hope to meet a deliverer if they could but weather it out a little longer. On the 28th, a sealer actually came in sight and aroused high hopes, only to be dashed by her disappearance soon after. Then two other sealers hove in sight. But none of these rescued our friends; the first saw them and bore down for them, but appeared unable to get through the ice; the other two seemed not to have seen the anxious party. At last, however, on the night of the 29th, the *Tigress*, without having seen them, was directed by the *Providence Herron* had so long and so faithfully trusted, so that she almost ran over them. The joy of



the long lost can scarcely be imagined, and certainly cannot be described when, on the morning of the 30th, they saw the Tigress close upon them. They were immediately taken aboard. But we cannot refrain from copying John Herron's account of the last six days:

"*April 25.*—Wind increased to a gale last night, from the northeast. Raining all night and to-day, with snow squalls. Launched the boat at 5 A. M. The case was desperate—running with a light-built boat, damaged as she is, patched and scratched all over. But what were we to do? The piece of ice we were on had wasted away so much it would never ride out the gale. Our danger to-day was very great; a gale of wind blowing, a crippled boat overloaded and a fearful sea running, filled with small ice as sharp as knives. But, thank God, we came safely through it. We are all soaking wet, in everything we have, and no chance of drying anything. We have had neither sun nor moon for over a week. Not a single star have I seen. All is dark and dreary; but, please God, it will soon brighten up. We have struck the sealmen's grounds. I never saw such an abundance of seals before; they are in schools like the porpoise. We hauled up on a floe after eight hours' pull; could make no westing. Shot some seals, but they all sunk; Joe shot them. Hard times.

"*April 26.*—Joe shot a seal last evening and broke the charm. Hans shot one this morning. Last night and this morning fine. Ice very thick around. Started at 6.30 A. M., and were beset two hours afterward. Pulled up on a small piece of ice, the best we could find. Snowing all day. Repaired the boat here, which it wanted, and the weather cleared up in the afternoon. Got some things dried a little, and half of us turned in. Hans shot a seal, making two to-day.

"*April 27.*—Yesterday, wind light from southeast. In the evening changed to northeast, blowing strongly. Mr.

Meyer took an observation yesterday. Latitude  $53^{\circ} 30'$  north. Snowed all night and this afternoon. Cleared up this afternoon, but remains thick and somewhat cloudy. Plenty of water all around, but cannot get to it. All well.

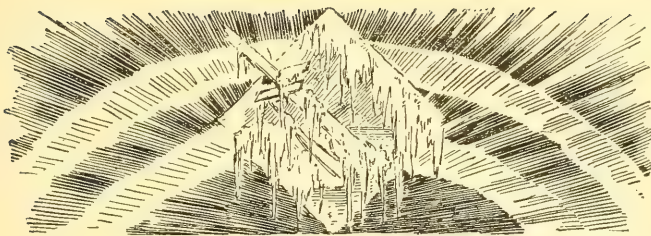
"*April 28.*—Gale of wind sprung up from the west. Heavy sea running; water washing over the floe. All ready and standing by our boat all night. Not quite so bad as the other night. Snow squalls all night and during forenoon. Launched the boat at daylight (3.30 A. M.), but could get nowhere for the ice. Heavy sea and head wind; blowing a gale right in our teeth. Hauled up on a piece of ice at 6 A. M., and had a few hours' sleep, but were threatened to be smashed to pieces by some bergs. They were fighting quite a battle in the water, and bearing right for us. We called the watch, launched the boat and got away, the wind blowing moderately and the sea going down. We left at 1 P. M. The ice is much slacker, and there is more water than I have seen yet. Joe shot three young bladder-nosed seals on the ice coming along, which we took in the boat. 4.30, steamer right ahead and a little to the north of us. We hoisted the colors, pulled until dark, trying to cut her off, but she does not see us. She is a sealer, bearing southwest. Once she appeared to be bearing right down upon us, but I suppose she was working through the ice. What joy she caused! We found a small piece of ice and boarded it for the night. Night calm and clear. The stars are out the first time for a week, and there is a new moon. The sea quiet, and splendid northern lights. Divided into two watches, four hours' sleep each; intend to start early. Had a good pull this afternoon; made some westing. Cooked with blubber fire. Kept a good one all night, so that we could be seen.

"*April 29.*—Morning fine and calm; the water quiet. At daylight sighted the steamer five miles off. Called the watch, launched the boat and made for her. After an hour's pull gained on her a good deal; another hour, and

we got fast in the ice; could get no farther. Landed on a piece of ice and hoisted our colors from an elevated place. Mustered our rifles and pistols and fired together, making a considerable report. Fired three rounds and were answered by three shots, the steamer at the same time heading for us. He headed north, then southeast, and kept on so all day. He tried to work through the ice, but could not. Very strange. I should think any sailing vessel, much less a steamer, could get through with ease. We fired several rounds and kept our colors flying, but he came no nearer. He was not over four or five miles distant. Late in the afternoon he steamed away, bearing southwest. We gave him up. In the evening he hove in sight again, but farther off. While looking at him another stranger hove in sight, so that we have two sealers near, one on each side of us, and I do not expect to be picked up by either of them. At sunset sighted land southwest, a long way off. Mr. Meyer took an observation to-day; latitude  $53^{\circ} 4'$  north. Hans caught a seal, very small and young—a perfect baby of a seal. Dried most of our things to-day.

“*April 30.*—5 A. M., weather thick and foggy. Glorious sight when the fog broke; a steamer close to us. She sees us and bears down on us. We are saved, thank God! We are safe on board the Tigress, of St. John’s, Captain Bartlett. He says the other steamer could not have seen us, as the captain is noted for his humanity. The Tigress musters 120 men, the kindest and most obliging I have ever met. Picked up in latitude  $53^{\circ} 35'$  north.”

The Tigress carried the rescued party to St. John’s, where they were received by the entire populace with the wildest demonstrations of delight. The secretary of the navy, as we have seen in the preceding chapter, sent the Frolic for them, and they were brought in safety to the capital city of their own country.



## CHAPTER XXVI.

**THE POLARIS ADRIFT.—LEAKS THAT DEFY THE PUMPS.—DETERMINATION TO RUN HER AGROUND.—SHE REACHES LIFE-BOAT COVE.—BEACHES ON LITTLETON ISLAND.—HOUSE FOR WINTER QUARTERS BUILT.—A PARTY OF ESQUIMAUX RENDER INVALUABLE HELP.—SPRING APPROACHES, AND TWO BOATS ARE CONSTRUCTED OUT OF TIMBERS FROM THE POLARIS.—WITH THE OPENING WEATHER, THE SHIPWRECKED PARTY EMBARK AND PROCEED SOUTHWARD.—PLENTY OF PROVISIONS, PLENTY OF PERIL, AND PLENTY OF PERSEVERANCE.—JUST AT THE CRISIS, A WHALER RESCUES THE ENTIRE PARTY, AND CARRIES THEM TO DUNDEE.—THEY SAIL FOR THE UNITED STATES.—ARRIVE IN SAFETY.**

LEAVING Capt. Tyson and his eighteen "ice-raft" companions thus in perfect safety from the perils of the deep as well as from those of hunger and cold, we must ask our readers to return with us to the deck of the ill-fated *Polaris*. We left her on the night of the 15th of October, 1872, in the midst of a fearful gale, with the ice, in fields, floes and mountain bergs, all about her, threatening to crush her in its driftings, to and fro, with the storm. After the ice-berg had splintered the field to which she had been fast, and set her adrift, she became a prey to the wild wind, which carried her rapidly whither it would, a mere toy in its mighty rage. To add to the horrors of the situation, it was found that the ice had opened several places in her hull, through which the water was pouring with terrible rapidity. Anxiety for the nineteen souls adrift on the "ice-raft" for a time blinded those on board to their own perilous condition, and an anxious watch was kept for them, the best "look-out" being detailed, and the rest straining their eyes in unavailing endeavors to discover the whereabouts of their late ship-mates. Soon,

however, they realized their own extreme peril. The hold was filling at a terrific rate, and the pumps were the only means of relief. These were found to be frozen. After considerable difficulty in making sufficient fire, water was heated, and with this the pumps were thawed and got into working order. The whole party, except the two firemen, went to work at the pumps with the energy of men working for their lives. But all their efforts were inadequate, the water still gaining upon them. Meanwhile, the firemen were faithfully endeavoring to get up steam with such fuel as they had, which was not only poor in quality, but sadly deficient in quantity. However, after repeated failures they succeeded, and with steam the vessel was not so entirely at the mercy of the wind. With the water gaining on the pumps, and a scant supply of fuel to keep up steam, it was evident to all that the only course that offered escape from certain death was to run the devoted ship ashore and desert her. But even this was far easier to determine upon than to effect. Fortunately, the wind had abated, and it became possible to use the sails. With the combined power of the steam and the sails, Capt. Buddington succeeded in carrying the vessel into Life-boat Cove, and within about three miles of Littleton Island. The wind here happily shifted to the north-east. Although it now seemed as if everything favored the purpose of running the ship ashore on Littleton Island, it nevertheless took twelve hours' hard work to beach her. This was at last accomplished, and the men were set to work getting out of her, and upon the shore, provisions, clothing, coal and every movable thing that could be serviceable in securing the safety and comfort of the party during the period of enforced residence on the island.

The absolute necessity for beaching and abandoning the *Polaris* may be realized by noting her unseaworthy condition. After the stores, etc., had been taken out of her, before the work of demolition commenced, a searching



inspection of her hull was had. It was found that her whole stern was cut from the six-foot mark down as far as they could see. Thus it was evident that she was incapable of being repaired, at least with such facilities as were at their command.

Now it became needful to construct shelter, and timber from the ship had to be brought into requisition, the bulkheads, sails, spars, etc., serving quite handily the desired purpose. This tearing away timbers of course made still more vague the prospect of escape from their island "home," but there was no alternative, and the men succeeded in constructing quite a comfortable house; the walls were of plank, jointed and made as far as possible impervious to the piercing blasts of the Arctic winter; the roof consisted of two sails laid on top of a covering of heavy planks. This "house" was twenty-two feet long, by fourteen wide, and occupied about two days in its construction. A fireplace was made in one end with a stove-pipe for a chimney. A galley and store-room were also provided. The accommodations for sleeping consisted of berths arranged around the walls. And in this primitive sort of abode Capt. Buddington and his men passed the winter months. During the winter darkness, it was necessary to keep oil-lamps continually burning, the oil being that of the walrus and seal. But they had not been in winter quarters many days ere they realized that shelter was not the sole desideratum to comfort in Arctic latitudes, and fortunately, just when most needed, a party of Esquimaux came upon them unawares. These, being kindly disposed, proved of great advantage to the forlorn party. It had been deemed advisable to build their house at some distance from the edge of the shore, and our shipwrecked friends had been unable to transport thither any considerable portion of the stores from the *Polaris*, and now their Esquimaux visitors, accepting a few paltry "presents" as compensation, performed this important service for them.

But this was less than another service rendered for a similar compensation. The shipwrecked crew had lost, in landing, a considerable part of their already inadequate supply of clothing. The Esquimaux, on the other hand, had a large quantity of skin clothing; this, though its odor is extremely offensive, is especially desirable in the Arctic regions on account of its warmth, and our friends gratefully availed themselves of the opportunity to replenish their scanty wardrobe from the Esquimaux stores. Besides which, these Esquimaux, from time to time, gave them a walrus. Indeed, they seem to have studied in every way to render all the assistance they could, and the kindnesses were the more felt as they were tendered in an unostentatious manner.

Thus, in a short time, our friends found themselves quite comfortable, with a good house, plenty of warm clothing and a sufficient supply of food, which, if not the best, was palatable and wholesome. The general health was excellent, and every one was cheerful. Time did not hang so drearily upon them as might have been anticipated, though hunting and other like pastime appeared impracticable, and they were restricted to reading (and this embraced no large supply or variety of reading matter), chess, draughts, cards and spinning "yarns."

The winter was long and dreary enough, with a great deal of snow. This, however, was rather an advantage than otherwise; for, banked up against the walls of their house, it made it more tenantable by excluding the cold winds which would have found entrance, in spite of their own efforts to make the walls tight.

So carefully had they provided for the winter that it was not till the 27th of January that they found it necessary to visit the *Polaris*, and then only in quest of wood. There was no difficulty in obtaining fresh water.

As the winter wore slowly away, and was near its close, they began to think of ways and means of extricating

themselves from their icy island prison. Though thus far they had been favored beyond what they could have anticipated, and had really experienced no actual suffering, the outlook was getting less promising, if not really gloomy and threatening. Their provisions were slowly but surely becoming exhausted and their fuel was almost used up; indeed, to make it hold out they had for some time been burning parts of the ship. Hence they naturally began to study out some means of escape, to be put into requisition so soon as the breaking up of winter should make escape practicable.

To repair the *Polaris* was, of course, out of the question, but Mr. Chester, the first mate, suggested the idea of making her remains available, by the construction of two boats, as she still offered a large supply of suitable timber.

Accordingly, an examination of the ship was made in order to ascertain where suitable material might be got. Mr. Chester, on a survey, at once conceived the idea that the thin lining of the cabin might be made serviceable. After it was stripped down a new difficulty presented itself. The wood was all pierced with nails, and how the boat, after it was built, was to be made water-tight was the question to be solved. Mr. Chester, according to the statements of all the crew, was apparently able to cope with every difficulty. With the assistance of the carpenter the boards were put together in such a manner that obstacles which at first appeared insurmountable were completely overcome. During the cold spring months, when the thermometer was twenty-three degrees below zero, frequently in the midst of blinding drift, the construction of the boats was proceeded with. The situation was one exceedingly trying, and well calculated to daunt the strongest hearts. Still, life depended upon the effort, and it could not be relaxed. Day after day, decided progress was made. Mr. Chester and Mr. John Booth, with the two carpenters, did the building, assisted by others when as-

sistance was required. At the close of the month of **May** the party were ready to make a determined attempt to push southward. The boats were each twenty-five feet long, with five feet beam, square at either end, but turned up. They were capable of carrying seven men each, with stores for two months.

While the boats were building, those not employed on them were busy packing stores. Hunting expeditions were also frequently sent out—fresh game, such as reindeer, etc., being not only a luxury, but almost a necessity to ward off scurvy.

As before intimated, the health of the entire party was excellent throughout the winter, but just as they were about to embark in the attempt to push southward, that fell foe of the Arctic navigator, the scurvy, broke out among our friends. Happily, the cases turned out to be of a trivial character; yet, but for a plentiful supply of walrus liver, kindly provided by the Esquimaux, the disease might have assumed alarming proportions.

At last, about the 1st of June, the boats were launched, and some disappointment was experienced on finding that they leaked rather more than had been anticipated, and, indeed, more than was quite safe. Still, no other means of escape were available, and escape they must. So the preparations were completed, the boats were stored with all the provisions they would carry, guns and ammunition were taken on board, and, on the 3d, our friends bid adieu to their snug winter quarters and to their generous friends, the Esquimaux. Capt. Buddington commanded one, and Mr. Chester the other, boat.

Once under way, the feeling of disappointment and insecurity was soon dispelled, and the spirits of the entire party were raised to a high pitch by finding that the boats sailed remarkably well, and were easy to pull.

The first day, Sonntag Bay was reached. After remaining there a short time to recuperate their energies, the

party made for Haebut Island. There the expedition was brought to a standstill. A tremendous gale of wind blew, and snow fell continuously for two or three days. Fortunately, however, immense flocks of auks were encountered, the men killing eight or ten at a shot. Such supplies of fresh provisions were very thankfully received.

A few days later, they once more embarked in their tiny craft, and sped southward with a will. At times they were sorely beset with the ice, and apprehensions were felt that they would come to grief. But, happily, the greater part of the time, they had almost clear water. And the men, realizing the necessity of energy and the desirableness of cheerful good humor, worked away in good spirits, making excellent progress; throughout each day and each night, when a floe or field was within reach, they would pull the boats up upon it and take everything out of them to avoid strain upon their frail sides and bottoms. Then a hot meal would be cooked and thankfully partaken of. The apparatus for cooking were exceedingly simple and limited. Each boat carried a lot of the rigging of the *Polaris* and a can of oil, and with these a fire would be made in the bottom of an old iron bucket. With such appliances it was possible only to make tea, but this was acceptable and refreshing. And then, after a night's rest, early in the morning they would again launch and load their little craft and push forward.

Thus they proceeded onward at a good rate of speed till they reached Cape Parry, and a few miles below, at Fitz Clarence Rock, they encamped for a day and two nights.

Pushing onward from here, they reached Cape York on the 21st of June, and, two days later, when they had gone some twenty-five miles farther south, their intense joy may be conceived, but cannot be depicted, on beholding a vessel in the offing. This vessel proved to be the Scotch whaler, *Rarensraig*, of Dundee.



Capt. Allan, of the whaler, tells the story of the **rescue** in the following graphic style :

"We entered Melville Bay (no other ships in company) on the 8th of June, and proceeded north under steam, with occasional stoppages, until the 15th, when a very violent gale from the southwest broke up the land ice, completely blocking the passage in every direction, rendering the navigation slow and uncertain, while very little progress was made, as the winds continued to prevail from the southwest. At length, after great difficulty, the ship reached latitude 75 deg. 38 min. north, longitude 65 deg. 35 min. west, Cape York being plainly in sight, bearing northwest (true) about twenty-five miles distant. Here a complete stop was come to, and the vessel was in imminent danger of being crushed by the heavy floes which surrounded her. In this position, on the morning of the 23d of June at four A. M., the look-out from the 'crow's nest' reported that a party supposed to be Esquimaux were making their way over the pack-ice toward the ship. At this time they were a long way distant, probably thirteen or fourteen miles, and appeared to move very slowly. By nine A. M. the strangers had advanced a mile or two nearer and came to a halt. We could then just make out that they were not Esquimaux, and could distinguish two boats, each of which displayed a small flag on a pole, but owing to the distance and refraction it was almost impossible to make this out with certainty. However, concluding they had seen us, our ensign was hoisted as a reply signal, and eighteen picked men were sent off to render any assistance required, while the strangers were observed to detach two of their number in the direction of the vessel. When these met our party, the whole proceeded onward to the boats, and a messenger was sent back to inform us of the news. At five P. M. the entire lot started for the ship, and some idea of the difficulty of traveling over such ice may be formed from the fact that it was twelve midnight before

they got on board, having been nearly seven hours in traversing a distance of about twelve miles. This arose from the soft and slushy-state of the deep snow covering the ice, while myriads of huge hummocks were piled and heaped everywhere over the surface, which was also much split and full of treacherous holes, into which many a flounder took place. The party, on reaching the ship, were made heartily welcome and as comfortable as the means at our command could possibly supply. They appeared tired and weather-beaten, but in good health and high spirits at having fallen in with a 'Scotch whaler,' for which vessels they were on the lookout, their commander knowing (he being once in the trade himself) that about this time the whalers passed through Melville Bay. The party were delighted to hear from us of the safety of their comrades, from whom they parted (adrift on an ice-floe) last October. They never expected to hear of them more, and were much surprised at their miraculous escape from what appeared a certain if not a speedy death. It was doubtless, also, a truly providential circumstance that placed the Ravenscraig in a position to pick up this party of castaways."

That Capt. Allan is right in ascribing to Providence the opportune arrival of the Ravenscraig we may see by considering the condition of our friends, and their resources as regards food, the state of their boats, and the impracticability of traveling on foot—a distance of at least 300 miles—over such treacherous ice as then covered the expanse of Melville Bay. Only about six days' provisions were left, although divided with the utmost economy; and, even with plenty of ammunition and arms, sufficient food could not in all probability have been obtained to support fourteen men during a long and toilsome march. Bears, seals and birds are scarcely to be got at. Dr. Kane, on the same track, had the utmost difficulty in shooting two seals, while he had the invaluable aid of a trained hunter,

also two good boats, and open water along the floe edge; but the boats of our *Polaris* friends both were stove as soon as they got entangled in the Melville Bay pack. The first portion of their voyage had been performed, as we have seen, in open water for the most part, so that their greatest difficulties were only begun when they fell in with the whaler. Moreover, the rest of the journey must have been attempted without shelter of any kind; in fact, they were totally unprepared, both as regards boats and clothing, for such an arduous undertaking. It is, therefore, highly probable that any further attempt on their part to reach the most northern Danish settlement must have ended in disaster to the entire party.

After the party had all been gotten on board, the *Ravenscraig* was detained in the pack-ice of the bay till July 4th, when she got loose. She continued on her northward course, and got into north water; thence crossing to Lancaster Sound on the 7th, she spoke the steamship *Arctic*, to which vessel seven of the rescued party were transferred; and on the 17th, three more were put on board the *Intrepid*, in Prince Regent's Inlet, while Capt. Buddington, Mr. Morton and two others remained in the *Ravenscraig* until the 20th of August, when they too joined the *Arctic*, anxious to secure an early passage to Dundee. It was deemed advisable thus to divide the party among the vessels of the fleet, on account of the strain on the provisions of one ship and the uncertain future of the voyage.

Shortly afterward the three who had gone on board the *Intrepid* joined their comrades on the *Arctic*, as the latter was about to sail for Dundee.

The *Arctic*, with the entire party, reached Dundee on the 18th of September, and were received with immense enthusiasm by the people, high and low alike turning out to welcome them to their city.

Telegrams were at once sent to the Secretary of the

Navy and to some of the American papers, announcing the joyful news, and it spread with great rapidity over the country, filling all hearts with grateful joy, that notwithstanding the disasters that overwhelmed the *Polaris* expedition, her precious freight of human beings had all, except the gallant Capt. Hall, been rescued from the perils and sufferings that had beset them, and restored to more congenial and safe latitudes.

The Secretary of the Navy, through the United States consul at Dundee, took immediate measures for the comfort of the rescued men, and to have them sent home by the first steamer.

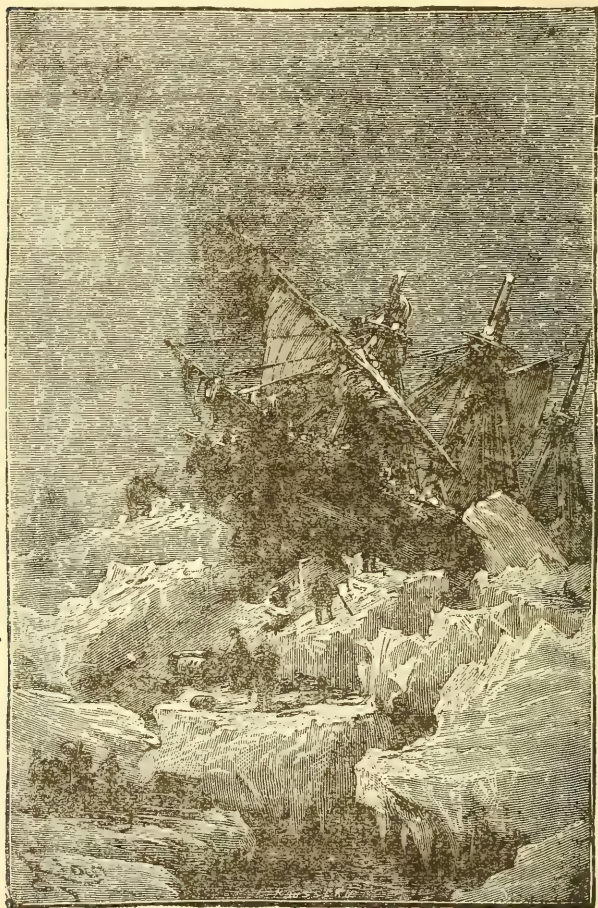
Accordingly, they were shipped as passengers on the *Inman* steamer *City of Antwerp*, and reached the quarantine station of New York early in the morning of the 4th of October. Here they were met by the United States steam-tug *Capulca*, to which they were transferred and carried to the Brooklyn Navy Yard, where they were received on board the United States steamer *Talapoosea*, and conveyed to Washington.

The Secretary of the Navy pursued the same course with this party as with that of Capt. Tyson, subjecting each one to a separate and searching questioning, with the view to ascertain all the facts connected with the successes and failures of the expedition, and especially in relation to the death of Capt. Hall. The testimony is voluminous, and it is sufficient to say that, in all essential points, it corroborates that of the former party, which we have spoken of in a former chapter. It puts completely at rest all questions as to Capt. Hall's death, and clearly proves that he died from natural causes.

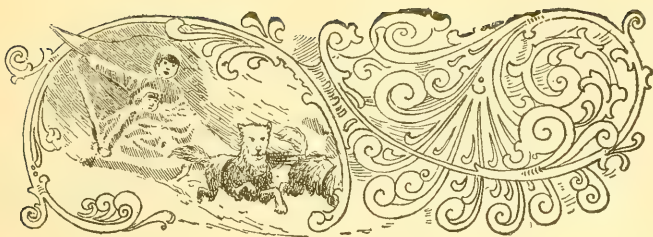
Thus ends the history of one of the most remarkable exploring expeditions ever undertaken. We have spoken of its results in Chapter XXIV., and here only remark that it is evident that the death of its great commander alone prevented it from proving the most complete success,



and, even with the subsequent disasters and failures, it has been an honor to our country and its projectors both in its conception and its execution.







## CHAPTER XXVII.

THE SLEDGE JOURNEY OF LIEUT. SCHWATKA, U. S. A.—OCCASION OF THE EXPEDITION.—SAILING OF THE "EOTHEN."—ARRIVAL AT DEPOT ISLAND.—CROSSING TO KING WILLIAM LAND.—MEETING WITH THE INNUITS.—THEIR ACCOUNTS.—VISIT TO A CAIRN.—IDENTIFYING THE REMAINS OF LIEUT. IRVING, R. N.—JOURNEY TO CAPE FELIX.—NO RECORDS FOUND.—RELICS OF FRANKLIN'S EXPEDITION.—CAMPING OUT AND SLEDGE JOURNEY, OCTOBER, 1879, TO MARCH 4, 1880.—RETURN TO THE UNITED STATES.

IN 1878, the search for the records of the Sir John Franklin expedition was renewed by Lieut. Schwatka, U. S. A., but nothing was accomplished in this direction, simply because nothing was possible. The journey, however, has added facts of value to the domain of geography, and its records exhibit an experience of remarkable energy, perseverance, and fortitude, which entitle it to a worthy place in the story of American exploration. The sledging has no parallel in Arctic history.

The immediate occasion of the expedition was the renewal of the old story brought back from the Neit-chi-lli Eskimos by two American whaling-masters, Captains Potter and Barry, that books and papers were to be found in a cairn in King William Land. The first of these stories appears to have been related by Capt. Potter in 1872; he had been frozen up twenty-four months in Repulse Bay, and thence brought to New York spoons, forks and knives engraved with the crests and initials of Franklin, Crozier and Fitz James; reporting that the Neit-chi-llies had spoken of

papers and books laid away in a cairn by the last white man who had visited their country.

This report was again renewed in 1877, on the return of Capt. Barry, one of Potter's former companions, and led to the presumption that the books might be the ship's logs and notes of scientific observations. For their recovery the British Government for many years had held open a large reward, and although this had now lapsed, Messrs. Morrison and Brown, owners of Barry's vessel, the "Eothen," were officially informed that if the proposed search were successful, liberal compensation would be made.

Lieut. Frederick Schwatka, of the 3rd U. S. Cavalry, of Polish descent, but American birth, had previously become eager to organize a search party and find the cairn and buried papers. On conference with the shipping merchants named, his offer to organize an expedition was accepted and the ship fitted out by private subscriptions.

On June 19th, 1878, Schwatka sailed from New York, accompanied by Mr. William H. Gilder as second in command; Henry Klutschak, who had passed through some Arctic experiences; Melms, an old whaler; and Joe Ebierbing, who had returned from his last Polar expedition, under Capt. Young, of the "Pandora." The "Eothen," commanded by Capt. T. F. Barry, was a stout vessel of one hundred and two tons; her crew numbering twenty-three men. For encounters with the ice, her hull had been overlaid to the chain plates with oak planking one and a half inches thick, and her stem covered with oak two feet thick; the iron plating on it three-fourths of an inch.

With the instructions furnished to the lieutenant, he was advised, should he be so fortunate as to find the records, remains, or relics, to keep the contents of the records a secret, and in the case of the remains of Sir John Franklin or any of his party, he should properly take care of them, and bring them to the United States. Should, on the other

hand, the expedition fail in its chief object, then he should make it a geographical success, as he would be compelled to travel over a great deal of unexplored country, by making daily observations to discover and note errors on the existing charts.

On August 7th, Schwatka reached Whale Point, at the entrance of Rowe's Welcome, an arm of Hudson Bay, where he was soon visited by several of the natives who had been companions of Capt. Hall on his second expedition. The people seemed friendly disposed, and on consultation over the charts, it was decided to go to the mainland near Depot Island, and spend the winter. The journey westward would be begun in the early part of the spring.

It was while spending the winter here, that investigations led to the discovery that the story which had been the chief means of bringing Lieut. Schwatka from the States, was supremely ridiculous. Mr. Gilder says, that "so far as Capt. Barry and his clews were concerned, we had come on a fool's errand."

Schwatka, however, decided not to abandon the search, and his decision was afterward fully justified by the labors of the expedition and its results. He knew what was before him, and with whom he had to deal, and would not return empty-handed. To verify the statements made by Nu-tar-ge-ark and other natives—nearly the same with those made to Capt. Hall in 1869, "that very many skeletons still lay on the ground in King William Land, invisible in winter by being covered with snow,"—as well as to determine finally in regard to the records, a journey would now be undertaken to the distant regions. For this, the first thing necessary was to get full dog-teams, for which Gilder set out on a visit to the Kinnepatoos, seventy miles west and north from Marble Island. He was the first white man to visit them, the first ever seen by a number of them; but all were friendly, even at his first entry to their igloos.

On his return from the village, after securing a few dogs, Gilder discovered two lakes, which he named respectively Brevoort and Duryea, and reconnoitered the southeast shore of Depot Island, the mouth of Chesterfield Bay and its islands, and Marble Island; he also discovered a river, which he named the Connery, and which by its course appeared to indicate the proper route to King William Land.

Within the same period, Lieut. Schwatka made a preliminary sledge journey to the north, discovered a river which he named Lorillard, and a chain of hills which he named the Hazard Range; to their summit he gave the name Wheeler. By astronomical observations and surveys, he determined that the west coast of Hudson's Bay in that section had been laid down on the charts about  $2^{\circ}$  too far to the west.

April 1st, 1879, he began his sledge journey of eleven months, covering a distance of three thousand two hundred and fifty miles, accompanied by thirteen Innuits men, women, and children. Their sleds, drawn by forty-two dogs, bore weights of about five thousand pounds—loads which would be each day lessened by the rationing of the walrus-meat to men and dogs. It was scarcely more than a month's supply, but the party were reasonably expecting to get their subsistence from the game which they would continually find to increase in number with the opening season. Their general course was north-northwest; it was the most direct route, but led them across land up to that date unvisited by a white man, and unknown to the Innuits.

For the first few days the journey was one of exceeding fatigue, the men having frequently to put on their harness in order to help the dogs over some ridge or through a snow drift. The Connery and the Lorillard rivers were crossed, and on the 27th of April, by the *Chart*, they should have reached the Wager River, but they saw nothing of it;

a fact which may explain Hall's being landed at a mistaken point, as stated in his report. The charts of Hudson Bay have misled the whalers. By the 21st, however, they reached Lat.  $65^{\circ} 45'$ , across the Wager River; and by the 9th of May were following a branch of Back or Fish River, which they named after President Hayes. Here, on May 15th, they fell in with a party of Ook-jos-likes whose chief gave them their first direct news of the missing navigators. These people were miserably poor and without food. Supplied by Schwatka with reindeer-meat, of which he had already found an abundance, they became very friendly, assisted in building igloos, and gave further valued information of Franklin's party. This was in part substantially the same with that learned by Hall, viz.: that a ship had been found in the ice off the west coast of Adelaide Peninsula, and that knives, spoons, and utensils had been taken out by cutting a hole into the ship on the level with the ice, as they did not know how to get inside by the doors; they saw no bread; they saw books on board and left them there; and when the ice broke up in the following summer, the ship filled through the hole they had cut, and sank.

Taking some of these men with him, Schwatka, after four more marches, reached Back River, and thence searched in vain on Montreal Island for the reported cairn. He then again took the mainland, and after crossing Richardson Point, for the first time, fell in with the Neit-chi-llis proper. One of these had seen books and papers scattered around the rocks, with knives, forks, and watches; another as late as the previous summer had picked up relics on the west coast of Adelaide Peninsula, and pointed out the place where the ship had sunk; others had seen the white men putting up a tent, some of their number being in a boat; some of the white men were very thin, their mouths dry, hard, and black; they had no fur clothing on; in the fol-



lowing spring a tent had been seen standing on the shore with a great many dead bodies inside and outside ; no flesh on them. There were knives, forks, spoons, watches, many books ; but the books were not deemed of sufficient importance by these natives to take note of. They were doubtless destroyed by the natives ; perhaps those at Beecher Island also.

On June 4th, Schwatka and Gilder visited a new cairn reported to have been erected by white men near Pfeffer River. It was found to be the one erected by Capt. Hall, May 12th, 1869, over the bones of two of Franklin's men which he had there discovered, and it confirmed an impression on Schwatka's party that the white men spoken of in the tent were all officers, and that the books reported to have been found in a tin case were the more important records of the expedition in their charge. At the site of a camp—probably that of Crozier—after abandoning his ship off Cape Jane Franklin, were found cooking-stoves, with their kettles, besides clothing, blankets, canvas, etc., and an open grave in which was a quantity of blue cloth, some canvas, gilt buttons, and the object-glass of a telescope. On one of the stones at the foot of the grave was a solid silver medal two and a half inches in diameter with a bas-relief portrait of George IV. on the obverse, and on the reverse a laurel wreath surrounded by the words "Georgius IV., D. G. Britanniarum Rex, 1820," and on the left a laurel wreath surrounded by, "Second Mathematical Prize, Royal Naval College," and inclosing "Awarded to John Irving, midsummer, 1881." This at once identified the grave as that of Lieut. John Irving, third officer of the "Terror;" under the head was a figured-silk pocket handkerchief, remarkably well preserved. The skull and a few other bones found were carefully gathered, and on the return of the expedition sent to the grateful relations of Lieut. Irving in Scotland. These were the only remains which could be suffi-

ciently identified to warrant their removal. But by this kindly Christian act, Lieut. Schwatka added another national testimony as well as one of human feeling towards the lamented navigators; Capt. Hall having performed a like duty in 1869, by sending through Mr. Brevoort, of Brooklyn, and Admiral Inglefield, R. N., remains, afterwards by a plug in a tooth identified in England as those of Lieut. Vescomte of the "Erebus."

Lieut. Schwatka's party reached Cape Felix, the most northern point of King William Land, on July 3rd. To reach this point they had cached all their heavy stuff in order to lighten the sled as much as possible, but had found their journey one of exceeding fatigue, the walking bringing to them new tortures daily. They were either wading through treacherous frozen torrents or lakes, or painfully plodding in soft sealskin boots over sharp clay stones, some of which slipped, sliding their unwary feet into crevices that would seemingly wrench them from the body. Yet they moved about ten miles a day, and made as thorough a search as was possible. Three miles south of the cape was found a torn-down cairn containing among other things, pieces of an ornamented china teacup, and cans of preserved potatoes; indications that the spot had been a permanent camping-place from the ships, and in charge of an officer. Two miles back from the coast was another well-built cairn or pillar, seven feet high, which had been built on a prominent hill overlooking both coasts. This Schwatka took carefully down without meeting with any record or mark whatever. Regretting that the only one left standing on King William Land, built by the hands of white men, should thus be found, he rebuilt it, depositing in it a record of the work done by his party to that date. After a thorough examination of the locality, it was plain that Sir John Franklin had not been buried there.

On the 7th of July, the march from Cape Felix was

taken southward, and a cairn very much like the last was met with. In the first course of stones was a paper with a carefully drawn hand on it, the index finger pointing in a southerly direction. Any writing upon it, if ever made, had totally disappeared, nor could any other relics be found. It was presumed that these last two cairns had been built by the Franklin Expedition for some scientific purpose only. Its scientific records, so long desired, especially those made here, near the Magnetic Pole, were not to be seen.

The party continued their coast journey, finding at different points, tenting places of both white men and natives, and another cairn which had been torn down, but nothing left within. At some distance from an empty grave was a skull which had evidently been dragged there by wild beasts. Near by were traces of native tenting-places. Gilder here states in his narrative that, "wherever they found graves they always found evidences that the natives had encamped in the neighborhood like vultures." This, with many other similar statements, was fully confirmatory of the records made by Capt. Hall in 1869.

The party went on to Erebus Bay, on the south side of which they found the wreck of a ship's boat, pieces of cloth, canvas, iron and human bones. The prow and stern part of the boat were in good condition, and its clinkered boards measuring twenty-eight feet six inches to where they were broken off, showed it to have been a very large boat. Portions of four skeletons were found and buried.

Here, by the breaking up of the ice and the melting of the snow, it became evident that sledging was over for the season; it would therefore be necessary to carry everything on the back, or upon the dogs. After a very tedious journey, Terror Bay was reached August 3d, and Schwatka and Gilder were there left alone until September 1st, their natives having returned to the coast to bring up some supplies with the empty sled. The two left in camp obtained a plentiful

supply of reindeer. They searched the coast as far west as Cape Crozier, but the tent-place spoken of by the natives could not be found, though its site was reached. It was afterwards learned that it was so close to the water that now all traces of it had disappeared.

On the 19th of September, Schwatka formed a permanent camp for early wintering, near Gladman Point on a narrow point of Simpson's Strait. Reindeer were seen in immense herds. Too-lov-ah in one day killed seven in ten minutes. On the 30th, twenty-six were killed. But by October 14th, no more were seen.

The worst march of the whole journey began December 10th; it became a continued struggle for life. The provision of fish which the party took from Back River, salmon, and a species of herring, soon ran out, and reindeer were so scarce that hunters were often absent several days before getting a shot at one. Farther south they were more plentiful, but the travelers had to defend themselves from the wolves, and several times the hunters barely escaped with their lives. The reindeer flesh was now too lean to afford good nourishment, and had to be eaten, moreover, not only raw, but when frozen so stiff that it had to be sawed into small bits and thawed in the mouth; and of lard and tallow they had only enough to light their igloos. More than half the dogs died on the route.

Snow storms often kept the party in camp several days; one of them lasting thirteen days. The average temperature of the month of December was  $50^{\circ}$  F., and the minimum  $69^{\circ}$ . That of February was  $45^{\circ}$ ; the lowest  $69^{\circ}$ . The thermometer stood  $60^{\circ}$  under the zero point for twenty-seven several days, and for sixteen days it was below  $68^{\circ}$ . The natives said that the winter was an unusually severe one. At this point it was determined to abandon the river and strike directly for Depot Island.

Everything, even the iron and wood, was seriously

affected by the extreme cold, and when the guns were brought into the warmer temperature of the igloo only for cleaning, every particle of the gathered moisture would have to be removed before they again met the cold. It was also a very difficult thing to get near enough to such wary game as the reindeer, for the sound of the hunter's footsteps, though his shoe-soles were covered with fur, was carried by the wind to be heard more than a mile off. Yet, by the superiority of the guns, whenever the party came upon the reindeer, especially when traveling against a headwind, preventing the approach of the hunter from being heard by the deer, the breech-loaders and magazine guns did their work so effectively that they could lay in a stock of meat a day or two ahead for the igloos. And but for the excellent character of the American firearms used, it seems impossible that this return journey could have been made.

The country also began to swarm with wolves. They killed some of the dogs and attacked the natives. On February 23d, twenty attacked Too-lov-ah, who beat them off with the butt of his gun until he had killed one and made his escape, while the others were fighting over and devouring the carcass.

On March 4th, with light sleds and by forced marches, they reached Depot Island, only to learn from Armon that Capt. Barry had not left with him the provisions belonging to the party, and which he had promised to leave with that faithful native. Further, that there was but one ship in the bay and that was at Marble Island. A further journey therefore became necessary, and which was ended on the 21st, when the whaler "George Mary" was boarded at midnight, Capt. Gilder being the first to reach the ship.

Thus was a continuous journey safely accomplished through Arctic snows, gales, and darkness during winter months, a journey unequalled in all Arctic history.



Gilder thus sums up the record in terms which are worth a close citation :

“ During the year that we were absent from the verge of civilization, as the winter harbor of the whalers may be considered, we had traveled two thousand eight hundred and nineteen geographical, or three thousand two hundred and fifty-one statute miles, most of which was over unexplored territory, constituting the longest sledge journey ever made, both as to time and distance, and the only extended sledge journey ever accomplished in the Arctic Region except such as have been made through countries well known and over routes almost as thoroughly established as post-roads. Our sledge journey stands conspicuous as the only one ever made through the entire course of an Arctic winter, and one regarded by the natives as exceptionally cold, as the amount of suffering encountered by those remaining at Depot Island attested, and further confirmed, as we afterward learned, by the experience of those who wintered at Wager River, where many deaths occurred, attributable to the unusual severity of the season. The party successfully withstood the lowest temperature ever experienced by white men in the field, recording one observation of  $-71$  degrees Fahrenheit, sixteen days whose average was one hundred degrees below the freezing point, and twenty-seven which registered below  $-60$  degrees, during most of which the party traveled. In fact, the expedition never took cold into consideration, or halted a single day on that account.

“ During the entire journey, its reliance for food both for man and beast may be said to have been solely upon the resources of the country, as the expedition started with less than one month's rations, and it is the first in which the white men of an expedition voluntarily lived exclusively upon the same fare as its Eskimo assistants, thus showing

that white men can safely adapt themselves to the climate and life of the Eskimos, and prosecute their journeys in any season or under such circumstances as would the natives of the country themselves.

“The expedition was the first to make a summer search over the route of the lost crews of the ‘Erebus’ and ‘Terror,’ and while so doing buried the remains of every member of that fated party above ground, so that no longer the bleached bones of those unfortunate explorers whiten the coasts of King William Land and Adelaide Peninsula as an eternal rebuke to civilization, but all have, for the time being, at least, received decent and respectful interment.

“The most important direct result of the labors of the expedition will undoubtedly be considered the establishing the loss of the Franklin records at the boat place in Starvation Cove; and as ever since Dr. Rae’s expedition of 1854, which ascertained the fate of the party, the recovery of the records has been the main object of subsequent exploring in this direction, the history of the Franklin Expedition may now be considered as closed. As ascertaining the fate of the party was not so gratifying as would have been their rescue or the relief of any number of them, so is it in establishing the fate of the record of their labors. Next in importance to their recovery must be considered the knowledge of their irrecoverable loss.”

The return of Lieut. Schwatka and his expedition to the United States, on September 22d, 1880, was a highly gratifying event to all the friends of the daring explorers, and the records of his journey claimed the attention of the geographical societies of England, France and America. Distinguished honors and acknowledgments were awarded him, in recognition of the invaluable services rendered and results obtained, amidst the tempests of the heavens and the

ice-covered and desolate lands under foot, by foresight, executive ability and undaunted iron will. His journey stands the counterpart on land with the drift of the ice floe party conducted by Tyson from the "Polaris," unexampled in history.



SCHWATKA AND GILDER EN ROUTE.



## CHAPTER XXVIII.

LIEUT. DE LONG'S EXPEDITION TOWARD THE POLE, 1879-1881.—MR. BENNETT UNDERTAKES IT.—SELECTION OF THE ROUTE.—DE LONG'S PLANS.—THE "JEANNETTE" COMMISSIONED.—SAILING FROM SAN FRANCISCO.—ARRIVAL AT ST. MICHAEL'S.—ATTEMPTS TO REACH WRANGELL AND HERALD ISLANDS.—FROZEN IN THE PACK, SEPTEMBER 6.—CHIPP ATTEMPTS THE CROSSING TO HERALD ISLAND.—THE "JEANNETTE" DRIFTS NORTHWEST PAST WRANGELL LAND.—LIEUT. DANENHOWER DISABLED.—RETURN OF THE SUN.—EXPERIMENT OF THE WINDMILL PUMP.—DE LONG ABANDONS THE THEORY OF THE CURRENTS.—SCIENTIFIC OBSERVATIONS KEPT UP.—THE FROZEN SUMMER.—AURORAL PHENOMENA.—CONTINUED DRIFT NORTHWEST.—DISCOVERY OF JEANNETTE AND HENRIETTA ISLANDS.—THE "JEANNETTE" CRUSHED.—LANDING ON THE FLOE.—DISCOVERY OF BENNETT ISLAND.—DESCRIPTION OF IT BY DR. AMBLER.—THE THREE BOATS.—THEIR SEPARATION.—THE WHALE BOAT PARTY LAND ON THE LENA DELTA.—THE FIRST CUTTER UNDER DE LONG.—SUFFERINGS.—DE LONG'S LAST ENTRIES.—DANENHOWER'S SEARCH.—MELVILLE'S SEARCH.—THE DEAD TEN FOUND.—THEIR BURIAL.—RETURN OF LIEUT. DANENHOWER.—SEARCH BEGUN BY LIEUT. HARBER.—ENGINEER MELVILLE'S RETURN.—APPROPRIATION TO BRING THE BODIES HOME.—THE RETURN OF THE BODIES.

THE avowed object of this expedition was to reach the Pole, and from the most authentic data furnished us, it appears that it was of De Long's own promptings. Shortly after his return from the "Juniata's" cruise on the Greenland coast in search of Captain Hall's party of 1873, he solicited the aid of some prominent and wealthy individuals to fit out another Arctic Expedition. Mr. J. Gordon Bennett favorably entertained the idea on its first presentation, but the matter rested until November, 1876, when it was decided to secure a suitable vessel and start for the North Pole the following summer.

No suitable vessel being found in the States, De Long

went to England on a two months' leave of absence from the Navy Department, and after a vigilant, but unsuccessful search, in the northern ports from which whaling vessels were sent out, decided that the "Pandora," which had made two Arctic voyages under Captain Allen Young, R. N., was the most available ship. After receiving information of Mr. Bennett's purchase of the vessel, De Long again went to England on a second leave of absence from naval duty in the United States. He superintended the fitting out of the "Pandora" in the shipyard at Deptford, and when she was finally ready for sea, shipped her crew at Cowes. After crossing to Havre, where he completed his equipment of charts, books and instruments, he sailed for San Francisco by way of the Horn, July 15th, 1878. The voyage to San Francisco consumed one hundred and sixty-five days, the ship anchoring at the Mare Island Navy Yard on December 27th, 1878.

The "Jeannette" was yet the private property of Mr. Bennett, but his own judgment accorded fully with the advice given in the outset by Lieut. De Long, that the ship should be placed in every respect under naval command, and a bill was therefore promptly introduced into Congress that the Government should accept the "Jeannette" for the purpose of a voyage of exploration. The act authorizing this, provided that Mr. Bennett might use in fitting her for her voyage any materials he might have on hand for it; might enlist the necessary crew for special service, their pay to be temporarily met from the pay of the navy, and to be paid or refunded by him under the future orders of the Secretary of the Navy, as he might issue these. The ship was to proceed on her voyage under the instructions of the Navy Department, and the men were to be subject in all respects to the Articles of War and navy regulations and discipline. This Act, approved February 27th, 1879, was supplemental to the one approved March 18th, 1878, which had



authorized the Secretary of the Treasury "to issue an American Register to the vessel, and the President of the United States to detail with their own consent commissioned, warrant and petty officers not to exceed ten in number, to act as officers to said vessel during her first voyage to the Arctic Seas."

Under the authority of these acts, Secretary Thompson on the 18th of June, 1879, gave De Long his instructions, which, however, left the details to the experience, discretion and judgment of the commander. They embraced the provision, that, on reaching Behring Strait, he should "make diligent inquiry at such points where he deemed it likely that information could be obtained concerning the fate of Professor Nordenskiöld; if he had good and sufficient reasons for believing Nordenskiöld was safe, he would proceed on his voyage; if otherwise, he would pursue such a course as would be judged necessary for his aid and relief."

Ten days later the vessel was put in commission, when a silk flag was used which had been made by Mrs. De Long to be unfurled when taking possession of any new-found land and when the highest latitude was reached. July 8th, 1879, Captain De Long reported to the Secretary of the Navy that the vessel being in all respects ready for the sea, would sail at 3 P. M. of that day, and would proceed with all despatch to the island of Ounalaska, and thence to St. Paul's and St. Michael's, Alaska, at which last point it was hoped some tidings would be had of Professor Nordenskiöld and his party. Failing in this, St. Lawrence Bay in Siberia would be visited in further quest; should nothing be learned there, the course would be through Behring Strait, and thence skirting the coast of Siberia as far westward as navigation would permit.

The complement of officers and crew embraced the following names: George W. De Long, lieutenant U. S. Navy, commanding; Charles W. Chipp, lieutenant U. S.

Navy, executive officer ; John W. Danenhower, master, U. S. Navy ; George W. Melville, passed assistant engineer, U. S. Navy ; Dr. James M. Ambler, passed assistant surgeon, U. S. Navy ; William M. Dunbar, seaman, for special service as ice pilot ; Jerome J. Collins, for special service as meteorologist ; Raymond L. Newcomb, for special service as naturalist and taxidermist ; Walter Lee, machinist ; James H. Bartlett, first-class fireman ; George W. Boyd, second-class fireman ; John Cole, boatswain ; Alfred Sweetman, carpenter ; with seamen W. F. C. Nindemann, Louis P. Noros, H. W. Leach, Henry Wilson, C. A. Gortz, P. E. Johnson, Edward Starr, Henry D. Warren, H. H. Kaack, A. G. Kuehne, F. E. Manson, H. H. Ericksen, Adolph Dressler, Charles Tong Sing, Ah Sing, Ah Sam, and coal-heavers, Walter Sharvell, Nelse Iverson, and John Lauterbach. The full list numbered thirty-two persons, and the crew had been selected with great care, partly from the east and partly from the Pacific coast. Officers and crew were volunteers.

Steaming out of the harbor of San Francisco, the "Jeannette" was escorted by the Governor of California, by a number of yachts of the San Francisco Yacht Club, and by steam launches loaded down with citizens. Every ship which was passed dipped her colors, and opposite Fort Point its garrison saluted the "Jeannette" with twenty-one guns. On the 3d of August she reached Ounalaska Island, having groped her way into harbor through thick fogs and terrible tides, running between one hundred or more islands, very incorrectly laid down on the charts ; some of them not at all. De Long wrote that getting observations was out of the question, for when he could see the sea, he could not see the horizon, and that his experience in getting through the passes into Behring Sea was far beyond all previous crooked navigation he had witnessed. To the Secretary of the Navy he wrote that from all the intelligence received from

the northward, the previous winter had been an exceptionally mild one. The revenue cutter "Rush" had just come south from her cruise to the northward, twenty miles north and east of East Cape, Siberia, without having encountered any ice. This seemed to be news of a most encouraging nature.

De Long deplored the necessity of having loaded his ship so deeply at San Francisco, since this had made the progress so slow under head wind and swell, that it became doubtful whether he could profit by this open water in the Arctic Sea in the effort to reach a high latitude that season. He would proceed to St. Michael's, and if nothing could be heard of Nordenskiöld there, from thence to St. Lawrence Bay.

At St. Michael's further stores were taken on board, forty dogs were purchased, and two Indians, Aneguin and Alexai, were engaged as hunters and dog drivers. No news had been received, nor had the schooner "Fanny A. Hyde" arrived from San Francisco with coal and extra stores; and this seriously embarrassed the commander. He must wait for coal, and must still delay by crossing to St. Lawrence Bay; meanwhile the fine season was "slipping away, when he might reach Kellett Land and push on to the northward." The schooner, however, came in on the eighteenth, and followed the "Jeannette" to the bay, which was reached on the twenty-fifth. Engineer Melville, from this point, wrote: "It was very fortunate for the ship that she had the schooner to carry our extra coal and stores over here, for on the way we were caught in a terrible gale of wind, and, owing to the condition of the ship, and deeply laden as we were, the sea had a clean sweep over us. It stove in our forward parts, carried away the bridge, caved the bulk-heads, and in fact just drowned us out. Had we the other stuff on board, we must have foundered, or else got it overboard in time. We leave here for East Cape to-day, having taken

on board all our stores, and we are in even much worse sea condition than we were before ; but we think that maybe, when we get into the ice where the wind can't raise a sea, we will be all right." The commander wrote that as he got out clear of land into Behring Sea, he found the water so shallow that a very ugly sea was raised in a short time, and that he had experienced a gale of thirty hours during which he had to lay the ship to and ride it out.

Before leaving the bay a native chief told of his having been, three months before, on board a steamer smaller than the "Jeannette," and found on her two officers who spoke English, and a third who spoke the Tchuktchi language like a native. The name of this officer, as far as could be learned from this chief, was *Horpish*, the true name being as De Long justly believed, that of Lieut. Nordquist, spoken of in Nordenskiöld's voyage of the "Vega," as having learned to speak the Tchuktchi tongue. De Long came to the conclusion that it was Nordenskiöld's steamer which had been seen, but as nothing had been made sure, and his last authentic advices from the Secretary had been that the professor, when last heard from, was at Cape Serdze Camen, he thought it his duty to go there, although the distance was one hundred and thirty miles. On the twenty-seventh, therefore, he towed the transport schooner out of the harbor, and stood on a northeast course toward Behring Strait.

On the twenty-ninth he attempted to land at the cape, Lat.  $67^{\circ} 12' N.$ , but found so much ice moving about as to make this impossible. On the thirtieth Lieut. Chipp, accompanied by Dunbar, Collins, and the native Alexai, landed, and learned through Alexai from an old squaw, that the steamer had wintered on the east coast of Koliutchin Bay ; and on the thirty-first the same party, together with Master Danenhower, at last made sure by a landing on the bay that the "Vega" had certainly wintered there and

gone south. Swedish, Danish and Russian buttons found in the hut on shore, and traded for by Chipp for his vest buttons as cash, were proofs enough of the "Vega's" visit, as no other ship has been in that part of the world with Swedish, Danish and Russian officers on board. Papers were also found written in Swedish and having on them the word Stockholm. De Long held divine service, all hearts being thankful that at last they knew that Nordenskiöld was safe, and the "Jeannette" might proceed on her journey to Wrangell Land. The delay of the "Jeannette" seemed, however, fatal to her purpose of reaching Wrangell Land for a winter security.

On the sixth day following, the ship was beginning to be closed off by the remorseless pack. On that date his journal entry reads: "I am hoping and praying to get the ship into Herald Island to make winter quarters. As far as the eye can range is ice, and not only does it look as if it had never broken up, but it also looks as if it never would. Yesterday, I hoped that to-day would make an opening for us into the land; to-day I hope that to-morrow will do it. I suppose a gale of wind would break up the packs, but the pack might break us up. This morning shows some pools of thin ice and water but as they are disconnected and we cannot jump the ship over obstructions, they are of no use yet to us." On the 8th, he again wrote, "I consider it an exceptional state of the ice that we are having just now, and count upon the September gales to break up the pack, and perhaps open leads to Herald Island. I want the ship to be in condition to move without delay. Besides, I am told that in the latter part of September and the early part of October there is experienced in these latitudes quite an Indian summer, and I shall not begin to expect wintering in the pack, until this Indian summer is given a chance to liberate us." The liberation, as is too well known, was



not to come. Yet De Long at this very point did, it would seem, the best that could be effected.

On the same day from which the above journal entry has been cited, at 1 P. M. the fog lifted and there was seen a chance to make a little headway toward Herald Island. The "Jeannette," worked hard to force her way wherever a crack or a narrow opening showed itself between the two floes, even where the ice of the floes was from ten to fifteen feet thick. By judicious ramming and backing and ramming again, the ship's head, by the help of the steamwinch, was shoved into weak places where the helm could not be turned, but within three hours, she was brought finally up again to solid floes; thick fog settled down and the ice anchors were planted. This day snow-goggles were served out to all hands with orders to wear them. The position of the "Jeannette" was established by observation to be  $71^{\circ} 35' N.$ ,  $175^{\circ} 5' 48'' W.$  She already heeled five degrees to starboard.

On September 13th, at 8 A. M., Lieut. Chipp and Engineer Melville, Ice-pilot Dunbar, and the native Alexai started out on the floe with a sled and eight dogs, to attempt a landing on Herald Island, toward some harbor within which De Long's lingering hopes still looked. He also thought it possible that drift-wood might be found on the island to help out the winter's fuel. But the party returned without having met with any success for either of these objects; no place could be seen offering any protection for a ship, nor any driftwood. Alexai shot a seal and brought it back in the boat, and on the second day following, De Long and Melville, Chipp and Dunbar, shot two bears, after their escape of some miles from the traps. The bill of fare was as yet sufficiently comfortable. But at the close of the month the "Jeannette's" position was far from being such, as she was still held between the floes as in a vise, continuously heeled over five degrees, and

drifting with the pack. In the four days from the 21st, to the 24th, the drift was twenty miles to the north, one degree west. Herald Island had entirely disappeared; but by a change in the drift to the southwest, by October 3rd, the island re-appeared in plain sight, bearing south-southeast, true. On the 14th, land was again seen in the same quarter and now very distinctly; and on the 21st, another distinct view was had, the land appearing as one large island with three peaks. Seen again on the 28th, the "Jeannette" being in  $71^{\circ} 57' N.$ ,  $177^{\circ} 51' W.$ , De Long believed it to be the north side of Wrangell Land, but he no longer thought it a continent; it was "either one large island or an archipelago."

The night of the 28th was beautiful, "the heavens were cloudless, the moon nearly full and shining brightly, and every star twinkling; the air perfectly calm, and not a sound to break the spell. The ship and her surroundings made a perfect picture. Standing out in bold relief against the blue sky, every rope and spar with a thick coat of snow and frost,—she was simply a beautiful spectacle. The long lines of wire reaching to the tripod and observatory, round frosted lumps here and there where a dog lay asleep; sleds standing on end against the steam-cutter to make a foreground for the ship; surrounded with a bank (rail high) of snow and ice; and in every direction as far as the eye could reach, a confused, irregular ice-field,—would have made a picture seldom seen."

On the following day a curious but not unusual point in Arctic history occurred among the dogs, of which the expedition had a good supply. One of a team which was out to hunt some walruses killed the day previous, deserted, by an escape from his harness. The other dogs attempted to chase him, and the native Alexai quickly said: "Bom bye other dogs him plenty whip." Truly enough, for after the return of the team, Bingo being found at a safe distance,

had been chewed up so badly by the others that he died in a few minutes. The Arctic dog will not bear laziness on the part of a fellow-dog in harness.

From the 6th of November to the 19th of January the experiences of De Long, his officers and crew, were confined to the drifting of the ship with the ice-pack. Recording his experiences De Long says: "The steady strain on one's mind is fearful. Seemingly we are not secure for a moment, and yet we can take no measures for our security. A crisis may occur at any moment, and we can do nothing but be thankful in the morning that it has not come during the night, and at night that it has not come since morning. Living over a powder-mill, waiting for an explosion, would be a similar mode of existence. . . . Sleeping with all my clothes on, and starting up anxiously at every snap or crack in the ice outside, or the ship's frame inside, most effectually prevents my getting a proper kind or amount of rest, and yet I do not see anything else in store for me for some time to come."

"The important point of the drift," says Lieut. Danenhower, "is in the fact that the ship traversed an immense area of ocean, at times gyrating in almost perfect circles, her course and the observations of her officers proving that land does not exist in that area, and establishing many facts of value as regards the depth and character of the ocean bed and its temperatures, animal life, etc. It is matter of lasting regret that the two thousand observations of Lieut. Chipp, an accomplished electrician, especially upon the disturbances of the galvanometer during auroras, as recommended to be made by the Smithsonian Institution, as well as the meteorological observations of Mr. Collins, perished with the lamented young officers in the wreck of their boat on the Siberian shore."

Before the month of May closed, the log was headed "one hundred and ninety miles northwest of Herald Island."

The total drift was one hundred miles, eighty-two miles to N.  $38^{\circ}$  W. The average temperature had been  $^{\circ}18.46$ , lowest -  $^{\circ}8.5$ , the highest  $35^{\circ}$ .

The hopes of release for the ship from her icy cradle seemed well grounded by the thermometer reading  $37^{\circ}$ , with a fall of rain on the first day of June. Fires were discontinued in the cabin and berth-deck, and the record could be made that there was a gradual resuming of ship-shape proportions to be ready for a start northward and eastward, or northward and westward, whichever the ice and the winds would permit. The decks were rapidly clearing, and De Long thought he was surely approaching the time when nothing would remain but to hang the rudder and make sail for some satisfactory result of the cruise. But from the first day of the month to the longest of the year, fogs, snows, and gales were almost the daily log entry. The drift, contrary to all expectation, had been generally to the southeast. For more than nine months the ship had been driven here and there at the will of the winds. On the 30th her position was  $72^{\circ} 19' 41''$  N.,  $178^{\circ} 27' 30''$  E., fifty miles south,  $9^{\circ}$  E. of her place on the first. She was heeling  $4^{\circ}$  to starboard ( $3^{\circ}$  all winter), and her doubling on that side was about four inches above water. From the crow's nest it could be seen that she was in the centre of an ice-island, a lane of water in some places a quarter of a mile wide, surrounding her at the distance of about a mile. Much effort had been made to liberate the screw without success. The drift on that day was only one mile.

The journal of July 8th, makes special reference to the thickness of the floes around and underneath the "Jeannette." It recites the facts, that "in September, 1879, after ramming the ship through forty miles of leads, she was pushed into a crevice between two heavy floes subsequently found to be thirteen feet thick; a depth caused by the over-riding and uniting of one floe with another by regelation

under pressure. When she was pushed out into open water the November following, she was afloat, but the next day, iced in." By January 17th, 1880, the ice had a thickness of four feet around the vessel, later measurements being rendered impossible by the confused massing which took place two days afterward. As the leak had now almost subsided, De Long believed that he was buoyed up by a floe extending down and under the keel. "Let us hope," he wrote, "that one of these days the mass will break up and let us down to our bearings." How sad these bearings were to prove! The fore-foot was irretrievably wrenched. The ship must sink immediately on the "breaking up."

During the remainder of the month of July, and throughout August, the monotonous record of the previous months of routine duty on board ship, and of drift with no release from the ice, remained with scarcely a variation from day to day. August 17th, De Long writes: "Our glorious summer is passing away; it is painful beyond expression to go round the ice in the morning and see no change since the night before, and to look the last thing at night at the same thing in the morning."

On September 1st, the ship at last resumed an even keel, and this had occurred very quietly and without shock; one or two large chunks of ice rose to the surface and then all was still. The ship was yet immovable, her keel and fore-foot being held in the cradles. After sawing under the fore-foot five or six feet, in the hope of getting once more properly afloat, it was found that more water came in, and the sawing must be arrested. The well-grounded apprehension existed that the broken stem or sprung garboards were firmly held in the ice, and that further work on the ship would only tend to open the rent still more widely. The comfort of being on an even keel was very great, but the hope of keeping the ship afloat if she should reach open water, was to all very questionable.



Before the close of the month, the idea of open water was abandoned, and preparations made for a second winter in the pack. What gave the most concern and anxiety was to make it possible for a ready abandonment of the ship in case of disaster. As long as enough of the vessel should remain for shelter, it was preferable to camping on the ice; and the lamented commander could already "conceive no greater forlorn hope than to attempt to reach Siberia over the ice with a winter's cold sapping one's life at every step."

There was no apprehension of lack of food, several more bears having been secured. With the exception of Lieut. Danenhower's case, and that of the temporary sickness of two of the crew, the general health of the ship's company remained good, the quick restoration of the sick showing a freedom from all taint of scurvy. Lieut. Danenhower had been under severe treatment for nine months, but for his eyes only.

The first break of the monotony experienced by these men during the second winter came in the following May. On the 16th, Ice-master Dunbar called the attention of Lieut. Chipp to land, clearly enough an island—the first to greet the eye since March 24th, 1880, fourteen months before. On May 24th, the pleasing sight of land was renewed. On the 31st Engineer Melville, in charge of a party set out and effected a landing on June 3d. They took possession of it for the United States and named it *Henrietta*—the name of a sister of Mr. Bennett. The first island was named *Jeannette*. De Long wrote of this: "Thank God, we have at last landed upon a newly-discovered part of this earth, and a perilous journey (Melville's) has been accomplished without disaster. It was a great risk, but it has resulted in some advantage."

These discoveries were, however, to be the only fruits of the long weary months; sad forecasts of a ship to be crushed

within the coming week. On the 12th of June, the ice around her was broken down in immense masses, the whole pack being alive, and had the ship been within one of the fast-closing leads she would have been ground to powder. Embedded in a small island of ice, she was as yet protected from the direct crushing on her sides, but felt a continual hammering and thumping of the ice under her bottom. At midnight, in a few moments' time, she was set free by the split of the floe on a line with her keel, and suddenly righting, started all hands from their beds to the deck. By 9 A. M. the ice had commenced coming in on her side; a heavy floe was hauled ahead into a hole where it was supposed the ice coming together would impinge on itself instead of on the ship. The pressure was very heavy, and gave forth a hissing, crunching sound, and at 3.40 P. M. the ice was reported coming through the starboard bunkers.

When the order was given for all hands to leave the ship at about eleven at night, her water-ways had been broken in, the iron work around the smoke-stack buckled up, the rivets sheared off, and the smoke-stack left supported only by the guys. Three boats were lowered, the first and the second cutter, and the whale-boat; and the ship's party made their camp on the floe in six tents, but within an hour were compelled to move still further from its edge by the breaking up of the floe in their camp.

At 4 A. M., June 13th, the cry of the watch was heard "There she goes; hurry up and look, the last sight you will have of the old 'Jeannette'!" While the ice had held together, it had held her broken timbers. When it opened—with her colors flying at the mast-head—she sank in thirty-eight fathoms of water, stripping her yards upward as she passed through the floe.

Although at the fearful distance of three hundred and fifty miles from the Siberian coast, with the prospect of the most toilsome of marches over hummocks, and all the un-

certainties of a landing and the subsequent journeyings which must be made of over fifteen hundred miles to Yakoutsk, or six thousand five hundred to St. Petersburg, officers and men accepted their new conditions in the same spirit of fortitude and hope. Their dependence was upon the amount of provisions and clothing saved, their boats, sleds, teams, and their own energy. They had nearly five thousand pounds of American pemmican in canisters of forty-five pounds' weight each, about fifteen hundred pounds of other canned provisions, and fifteen hundred pounds of bread; with a full supply of ammunition for game, two dingys beside the three boats named, and in all, nine sleds.

On the 17th of June, at 6 P. M. the retreat southward was commenced, in the hope that with God's blessing, they might be enabled to reach the New Siberian Islands, and from thence make a way by boats for the coasts of Siberia. On the 11th of July, after a fearful struggle under most adverse circumstances, they came in sight of what appeared to them as land. Seventeen days later a landing was effected on this land and which proved to be a new discovery. The island was so steep that a footing was had with much difficulty, yet at 7 P. M. every one was on shore, the silk flag unfurled, and possession taken in the name of the President of the United States. The island was named "Bennett Island" after the patron of the expedition.

The ship's company now encamped for several days, greatly needing rest and change of diet. Explorations of the island were made by some of the officers and notes taken touching geological formations, tidal observations, etc. The party left the island on the 6th of August, and thence made fair progress until the 20th, when after drifting along the north coast of Thadeoffsky Island (or Thaddeus Island), they were imprisoned nearly ten days, after which they found themselves in navigable water, and rounded the south point of the island.

The ship's party were now divided as follows: In the first cutter were Capt. De Long, Surgeon Ambler, Mr. Collins, and eleven of the crew, including Ah Sam, the cook, and the Indian, Alexai; in the second cutter were Lieut. Chipp, Ice-pilot Dunbar, and six of the crew; while the whale-boat held Engineer Melville, commanding, Lieut. Danenhower (invalid), and eight of the crew, including the Chinese steward, and the Indian, Aneguin.

On the 10th, the land of the Asiatic coast hove in sight, estimated to be twenty miles westward; and on the 11th, a landing was made and parties sent out hunting. An old deserted hut was found, and human footprints by a civilized boot. Lieut. Chipp and some of his sailors visited Melville's camp, and reported that they had had a very rough experience.

On the 12th of September, the three boats left Semenovski Island on which the party had camped, and remained in company until noon, dining together. A gale was commencing from the northeast, which by 7 P. M. forced all hands in the whale-boat to pumping or bailing out water. The course was south southwest, true. Capt. De Long was about five hundred yards from Melville, and Chipp seven hundred from De Long. The gale increasing, both of these last were lost sight of by the whale-boat; the first cutter destined to land her party and make the sad experience of their intense suffering to death by cold and starvation; the second cutter to leave no record, but the blank to be filled by the reasonable supposition of her having been swamped by the sea; and the whale-boat to be saved only by the successful use of a drag or sea-anchor, and the incessant bailing by almost exhausted men. Engineer Melville was in command, but relied on the professional ability of Lieut. Danenhower, still on the sick list. The lieutenant carried the watch and chart, and could shape the course of the boat by the bearings of the sun at this equinoctial

period. On September 15th, one of the eastern mouths of the Lena was entered, and by the assistance of a Tungas pilot, the party pushed up the river, and on the 26th reached a small village in which lived a Siberian exile, Kopelloff, who proved very useful in opening the way to intercourse by teaching the lieutenant Russian phrases. They were detained at this place waiting for the growth of the ice for sledding, and while another Russian exile, Roosmah Gerrymahoff, with the chief of the village, went forward to Bulun to inform the Russian authorities of their arrival.

On the 29th these two messengers returned, bringing the news that on their way back they had met natives with deer-sleds, who had Nindemann and Noros, of De Long's party, conducting them to Bulun. The two seamen had written a note, stating that the captain's party were starving, and needed immediate assistance. Koosmah communicated this note to Engineer Melville, who immediately started with a native and dog team, to find the men, learn the position of the captain's party and carry food to them. Danenhower was ordered to take charge of the party, and get them to Bulun as soon as possible. November 1st, the Bulun commandant brought to him a good supply of bread, deer-meat, and tea, and a document addressed by Nindemann and Noros to the American Minister at St. Petersburg; this the lieutenant forwarded by seaman Bartlett to Melville at the first deer station. He received from him orders to go forward to Yækoutsk, which he reached December 17th, 1881, having traveled by deer-sled nine hundred versts (six hundred miles) to Verchoransk, and thence, by means of deer, oxen, and horses, the remaining nine hundred and sixty versts.

The fate which befel De Long's boat cannot be better described than through the language of the captain's brief journals of the month of September, 1881. "At 9 P. M.,



September 12th, lost sight of the whale-boat ahead ; at 10 P. M. lost sight of second cutter astern ; wind freshening to a gale. Step of mast carried away ; lowered sail and rode to sea anchor ; very heavy sea, and hard squalls. Barometer falling rapidly. 13th, very heavy northeast gale. . . . At 8 P. M. set a jury sail made of a sled cover, and kept the boat away to the westward before the sea ; 17th, grounded at a few hundred yards, landed at 8 P. M. ; dark and snow storm, but Collins had a good fire going ; at 10.20 P. M. had landed everything, except boat oars, mast, sled, and alcohol breakers ; 18th, had fires going all the time to dry our clothes, we must look our situation in the face, and prepare to walk to a settlement.

"September 19th, ordered preparations to be made for leaving this place, and as a beginning, all sleeping bags are to be left behind. Left in instrument box a record, portions of which read thus :—

"LENA DELTA, Sept. 19, 1881.

"Landed here on the evening of the 17th, and will proceed this afternoon to try and reach, with God's help, a settlement, the nearest of which I believe is ninety-five miles distant. We are all well, have four days' provisions, arms and ammunition, and are carrying with us only ship's books and papers, with blankets, tents, and some medicines, therefore, our chances of getting through seem good. At 2.45 went ahead, and at 4.30 stopped and camped. Loads too heavy—men used up—Lee groaning and complaining, Erickson, Boyd, and Sam, hobbling. Three rests of fifteen minutes each of no use. Road bad. Breaking through thin crust ; occasionally up to the knees. Sent Nindemann back with Alexai and Dressler to deposit log-books. . . . Every one of us seems to have lost all feeling in his toes, and some of us even half way up the feet. That terrible week in the boat has done us great injury ; opened our last

can of pemmican, and so cut it that it must suffice for four days' food, then we are at the end of our provisions and must eat the dog (the last of the forty), unless Providence sends something in our way . . . .

"Sept. 21, at 3.30 came to a bend in the river making south, and to our surprise two huts, one seemingly new. At 9 P. M. a knock outside the hut was heard and Alexai said, 'Capt., we have got two reindeer,' and in he came bearing a hind quarter of meat.

"Sept. 24, commenced preparations for departure from the hut at seven o'clock. . . . At 10 o'clock P. M. made a rough bed of a few logs! Wrapped our blankets around us and sought a sleep that did not come;—27th, made tea at daylight, and at 5.05 had our breakfast—four-fourteenths of a pound of pemmican. . . . At 9.45 five men arrived in camp, bringing a fine buck. Saved again!!

"September 30, one hundred and tenth day from leaving the ship, Erickson is no better, and it is a foregone conclusion that he must lose four of the toes of his right foot, and one of his left."

The captain's journal then gives an account of the sufferings, death and burial of Erickson in the river, the impossibility of digging a grave in the frozen ground rendering this necessary.

"October 9, sent Nindemann and Noros ahead for relief; they carry their blankets, one rifle, forty pounds of ammunition, two ounces of alcohol. . . . Under way again at 10.30, had for dinner one ounce of alcohol. Alexai shot three ptarmigan. Find canoe, lay our heads on it and go asleep.

"10th, eat deer-skin scraps. . . . Ahead again till eleven. At three halted, used up. Crawled into a hole on the bank. Nothing for supper, except a spoonful of glycerine. 17th, Alexai died, covered him with ensign, and

laid him in a crib. 31st, one hundred and thirty-first day, Kaack was found dead at midnight. Too weak to carry the bodies out on the ice; the doctor, Collins and I carried them around the corner out of sight. Then my eye closed up. Sunday, October 23, one hundred and thirty-third day—everybody pretty weak—slept or rested all day, then managed to get enough wood in before dark. Read part of divine service. Suffering in our feet. No foot gear.

"Monday, Oct. 24, one hundred and thirty-fourth day. A hard night.

"Tuesday, Oct. 25, one hundred and thirty-fifth day. No record.

"Wednesday, Oct. 26, one hundred and thirty-sixth day. No record.

"Thursday, Oct. 27, one hundred and thirty-seventh day. Iverson broke down.

"Friday, Oct. 28, one hundred and thirty-eighth day. Iverson died during early morning.

"Saturday, Oct. 29, one hundred and thirty-ninth day. Dressler died during the night.

"Sunday, Oct. 30, one hundred and fortieth day. Boyd and Görtz died during the night. Mr. Collins dying."

Thus ends De Long's journal, and these brief extracts tell the story of the first cutter, except that of the two saved, Nindemann and Noros. The captain, the surgeon, and the last one of the crew must have perished almost immediately after.

Nindemann and Noros had been sent ahead by De Long on the 9th, and, after suffering severely and at times almost on the verge of starvation, they reached a hut on the 22d, where they stopped to rest. Here they were discovered by a native who, on the evening of the same day, returned with others, and putting the two men on deer sleds, drove with them until midnight to their tents, into which they

took the two seamen and fed them. These natives, on learning that they wished to be carried to Bulun, secured a number of deer and carried the two forward, and landed them at that place on the 29th. From here Noros wrote, at Nindemann's dictation, a letter to the American Minister at St. Petersburg, informing him of the condition of De Long and his party. And it was here, on November 3d, that Engineer Melville found them and obtained all the details from the time they had landed.

Melville, after forwarding the necessary telegrams to his government, acquainting it of the disaster to De Long's party and the second cutter under Lieut. Chipp, pushed his search to the northern extremity of the Lena Delta. Leaving Burnlak November 5th, with two dog-teams, two natives, and food for ten days, he visited some of the huts spoken of by Nindemann and Noros, and on receiving from some native hunters the records left by Captain De Long, and, learning from these where the log-books, chronometers, and other abandoned articles had been left, subsequently found the cache, marked by a tall flag-staff, on the ocean shore, and secured them. A further diligent search of three weeks, made with great suffering and exposure, revealed, however, nothing of the missing party; nor had the natives heard of them at any of their settlements. Nindemann had expressed his conviction that all must have perished; it was now matter of painful but irresistible conclusions. Melville could hope to do no more until the season opened and until full arrangements could be made for the necessary supplies, and for the orders to subordinates which should be issued by the Russian authorities. This could not be accomplished at Bulun, so he went forward to Yakoutsk, arriving there December 30th.

January 10th, 1882, he sent forward the logs and papers in charge of Lieut. Danenhower, who had been ordered by the Department to return to the United States, and pushed

his preparations for the renewed search under the orders from the Department received at the same time.

March 16th, accompanied by seamen Nindemann and Bartlett, the latter of whom had picked up some Russian, he found the hut where De Long and his comrades had slept before crossing the river; and on the 23rd found not the living but the dead ten. Four poles lashed together and projecting out two feet from the snow drift, pointed to their resting-place. The muzzle of a Remington rifle also stood above the snow bank eight inches, its strap hitched over the poles. A few hundred yards further were the three bodies of Captain De Long, Surgeon Ambler, and Ah Sam, the Chinese cook. Along side of De Long was his note-book with the last feebly written lines which have been cited; under the poles were the books and records which the conscientious care of the commander had too heavily loaded himself and party. Alexai's body was searched for in vain; De Long's journal showed that he died in the flatboat. It is probable that the remains of the native were borne by the flood into the Lena.

Melville had all the bodies carried over the mountain to the southward of Mat-vai, where, on a high bluff, a tomb had been prepared, and a box to hold the bodies. They were arranged side by side, De Long, Ambler, Collins, and the others in regular rotation, as their names were cut on a vertical portion of a cross placed over the tomb.

Melville's party, having completed the burial of the bodies, then entered upon the search for the second cutter, under command of Lieutenant Chipp. Nindemann and Bartlett were sent to Cape Barkin, from which point one of them examined the sea-coast of the Delta southward as far as Jamavaeloch, working also into the mouths of the rivers; the other followed the north coast of Siberia to the river Osoktok, along which De Long and his party came. Their orders were executed in the most thorough manner,

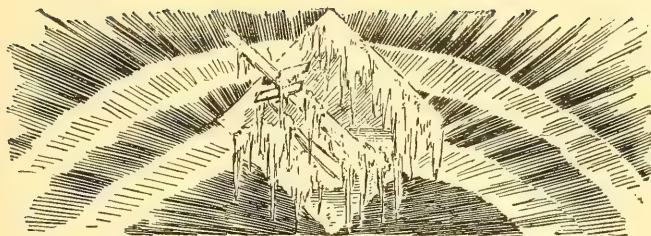


but no trace of the second cutter was found. The first cutter was found where she had been abandoned in the ice of the ocean, filled with water, frozen in, and badly stove.

Melville searched the coast line west to the deserted village of Chancer, thence across the peninsula, down the river Alanack to the ocean; along the coast, in and out of all the bays to the northwest point of the Delta, and thence along the north coast; completing the coast-wise search for the second cutter, by a still further search to the river Jana. He reached finally, after some detention on the mountains by the melting of the snows, the town of Yakoutsk on June 8th. From here Melville began his home journey with Nindemann and Noros, arriving in New York, September 13th, 1882.

The Navy Department on receiving the first report of the disaster, had sent forward two officers, Lieuts. Harbor and Schutze, with instructions to search diligently for the parties lost, and to bring home the bodies of those that had perished. It is unnecessary to enter into the full details of the work done by these officers during their journey on this work of mercy. Sufficient it is to record the fact that they eventually returned home bringing with them the remains of Commander De Long, and the ten men who died with him at the mouth of the Lena in 1881.

The *Bulletin de la Société de Géographie*, of 1st Trimestre, 1883, in reviewing the voyage of the "Jeannette," closes thus: "Honor to De Long, who always knew how to exercise the fullest qualities of courage and command! Honor to all his comrades, officers, and sailors, whose spirit of discipline and sacrifice is a glory to the navy which counts such men within its ranks."



## CHAPTER XXIX.

AN OFFICIAL POLAR COMMISSION.—ESTABLISHING STATIONS OF OBSERVATION IN LADY FRANKLIN BAY, GRINNELL LAND, AND AT OOGLAMIE, NEAR POINT BARROW, ALASKA.—LIEUT. A. W. GREELY, IN CHARGE OF THE LADY FRANKLIN BAY EXPEDITION.—ACCOUNT OF ITS JOURNEY TO THE STATION.—FORT CONGER.—LIFE AT THE STATION, 1881-2 AND 1882-3.—FAILURE OF RELIEF PARTIES.—ABANDONMENT OF THE STATION, SEPTEMBER 1883.—RETREAT OF THE PARTY SOUTHWARD.—BESET IN THE ICE.—DRIFTING HELPLESSLY.—ABANDONMENT OF THE STEAM LAUNCH.—REACHING ESKIMO POINT.—IN WINTER QUARTERS AT CAMP CLAY, 1883-4.—REDUCED RATIONS.—DISAPPOINTMENT IN FAILING TO FIND SUPPLIES.—TERRIBLE SUFFERINGS AND STARVATION.—DEATH OF MANY OF THE PARTY.—RESCUE OF THE SURVIVORS BY COMMANDER SCHLEY AT A TIME WHEN SUPPLIES HAD BEEN ENTIRELY EXHAUSTED.

IN September, 1875, the late Carl Weyprecht, one of the commanders of the Arctic Expedition, in the ill-fated "Tegethoff," author of its narrative and discoverer of Franz Josef Land, first proposed that the nations of the world should unite in one uniform system of simultaneous magnetic and meteorological observations, at as many stations as possible, in both the Arctic and Antarctic regions. The results to be secured in these zones would be comparable with, and utilized in connection with those derived from observations in the temperate zones, and would largely advance the domain of the sciences.

The details of the plan, elaborated in 1879, 1880 and 1881, resulted in the establishment of an Official Polar Commission, all the members of which were clothed with authority by their respective governments. Under their auspices the stations to be established were named, and the countries designated to supply the observers. Of these

the United States were designated to establish the following: At Lady Franklin Bay, Grinnell Land, and at Ooglamie, near Point Barrow, Alaska.

The station at Fort Conger, in Lady Franklin Bay, was established under a special act of Congress, which appropriated the sum of \$25,000 for the purpose. By direction of the Secretary of War, First Lieut. A. W. Greely, U. S. A., in June, 1881, was charged with the duty of establishing a *permanent* station at the most suitable point north of the eighty-first parallel and contiguous to the coal seam discovered near Lady Franklin Bay by the English expedition of 1875. The coal vein was expected to afford sufficient fuel.

It was the intention of Congress that this station should be maintained for three years at least, for according to the report of Hon. Mr. Whitthorne from the Committee of Naval Affairs, House of Representatives, recommending the appropriation, an annual visit should be made to the station to carry fresh food and supplies, and, if necessary, to bring back invalid members of the expedition and carry out fresh observers to take their places. The party under Lieut. Greely consisted of Lieuts. F. F. Kislingbury and James B. Lockwood, and Dr. O. Pavy, acting assistant surgeon and naturalist, with a force of sergeants, corporals and privates of the United States Army, numbering eighteen. The Lieutenant received his instructions from the Chief Signal Officer, who embodied in them specific directions for the different branches of the work to be accomplished, supplemented by special instructions from "The Coast and Geodetic Survey," with a translation of those adopted by the International Polar Conference of 1879.

Leaving St. John's, Newfoundland, on the steamer "Proteus," July 7th, Lieut. Greely reached Godhaven on the 16th, the voyage being made in the face of continuously adverse winds, two strong northerly gales and constant

cloudy and foggy weather. The ship behaved admirably. The only ice seen south of Cape Farewell was a few icebergs off Funk Island, and about forty in  $52^{\circ}$  N. and  $53^{\circ} 15'$  W.

Leaving Godhaven the morning of the 21st, the vessel reached Rittenbenk the same forenoon. From Rittenbenk, running through the Waigat, the steamer was off Uppernavik 9 P. M. July 23d, but owing to the fog could not enter the harbor until next morning.

On the afternoon of July 29th the anchorage of Uppernavik was left, and at 7 P. M., having run out the southern way, the vessel was distant three miles, just off the island to the west. Running northward a few hours, the middle passage was taken, and at 7 A. M., July 31st, the engines were stopped, as the dead reckoning placed the vessel only six miles south of Cape York; a dense fog prevented the land from being seen, but an hour later, the fog lifting a few minutes, showed land about five miles distant. This experience of the "Middle Passage" may be fairly said to have been *without parallel or precedent*. The run of the English expedition of 1875-6 from Uppernavik to seventy-five miles south of Cape York in seventy hours, was said to have been unprecedented; this passage by the same route, and to within five miles of Cape York, was made in thirty-six hours, *half the time* taken by the expedition under Sir George Nares to run a less distance.

Nothing in the shape of a pack was encountered in Baffin Bay; but in about  $75^{\circ} 18'$  N.,  $63^{\circ} 40'$  W., a pack was seen to the westward; whether open or compact was uncertain. At 8.15 A. M., July 31st, the fog lifting, disclosed Petowik glacier near, to the north of which, in small patches of dirty reddish color, was seen the red snow among the "Crimson Cliffs" of Sir John Ross.

Littleton Island was reached, August 2nd. Here a personal and exhaustive search of seven hours was required to find

the English mails, which, in four boxes and three kegs, were forwarded in order that they might be returned to England. There was a very small cairn near the mails, but with no record. A record enclosure was left here, and Lieut. Lockwood with a party landed about six and a half tons of coal, as a depot of fuel for possible future use. The island was carefully searched and some discoveries of records previously left by others were made.

Some repairs to the wheel of the ship caused several hours' delay ; but Littleton Island was left at 10.45 P. M. The weather being very fair, and no ice visible, the captain was directed to run direct for Cape Hawks. August 3, Cape Sabine was passed at 1.50 A. M., and Cape Camperdown at 4.10 A. M. At 8.30 A. M., the "Proteus" was off Cape Hawks, and at 9.10 A. M., lay to about two miles north of it, between the mainland and Washington Irving Island. Lieuts. Greeley and Kislbury landed on the main shore, and examined the English depot of 1875. Washington Land was first sighted at 3.55 P. M., through openings in the fog which commenced setting in. About 5 P. M., the 80th parallel was crossed, and at 5.30 the ship was abreast of Cape Collinson, where two hundred and forty rations were cached. They were not visited, through fear that denser fogs would set in and seriously delay the northward passage. At 10 P. M., after running slowly through a dense fog, it became necessary to stop until the next day (August 4th), when the fog cleared at 11.15 A. M. Franklin Sound was sighted about eight miles northeast, true ; it was passed at 11.45 A. M. At 2 P. M., the ship stopped in the northeast end of Carl Ritter Bay, where about two hundred and twenty-five bread and meat rations were landed, for use in case of a retreat *south* in 1883.

About 7.45 P. M., off Cape Lieber, a heavy pack against the land was passed by a detour to the eastward, and at 9 P. M., August 4th, the vessel was stopped for the first time



by ice, in the extreme southeast part of Lady Franklin Bay, only eight miles from destination. The pack was a very heavy one, and running from Cape Baird northward in a semi-circle, reached the Greenland coast, where it touched the land just south of Offley Island, near the mouth of Peterman's Fiord. It consisted of thick Polar ice, ranging from twenty to fifty feet in thickness, cemented together by harbor ice from two to five feet thick. It was impossible to do aught but wait. The vessel was tied to the pack off Cape Baird, and awaited a gale.

August 5th, Greely went ashore at Cape Lieber, with Lieut. Lockwood, Dr. Pavy and a party to examine the ice from the cliffs. Lieut. Lockwood erected a cairn on the highest peak. No other cairn could be seen on it or from it, nor on other peaks visited by Greely and Doctor Pavy. Occasional lanes of water could be seen through the rifts of the fog-cloud which covered Hall-basin; but the main pack was firm and unchanged. August 6th, the pack moving slightly, obliged the vessel to change her mooring-place from time to time; it drove the ship out of Lady Franklin Bay, and during two days she was gradually driven south; probably twenty-five miles of ice in huge fields passed southward. Every opportunity was improved to steam around such fields, to keep head against the southerly current; but by the evening of August 8th the steady north wind had forced the whole pack down, while the fields previously driven southward, packed fast together, formed a huge compact barrier, stretching from Cape Ritter Bay across to Hans Island. Only a mile or so of open water remained. A *nip* appeared most probable, and preparations were hastily made to unship screw and rudder. During the night matters improved somewhat; but again, during the 9th and 10th, the ship was forced slowly southward to within about five miles of Hans Islands, having lost about forty-five miles of latitude.

About noon of the 10th the long-desired southwest gale set in, accompanied by snow, starting the pack northward. The snow cleared the next morning, but the gale fortunately continued, and open water was visible on the west coast as far northward as could be seen. At 7.30 A. M., the ship rapidly ran northward, and about 1 P. M., again passed Cape Lieber, and at 2.40 P. M., had crossed Lady Franklin Bay. Either ice-foot or pack-ice jammed against the shore covered Watercourse Bay, but a narrow lane permitted the vessel to enter Discovery Harbor just inside Dutch Island, where harbor ice about eighteen inches thick was found, covering the whole harbor as well as the western half of Lady Franklin Bay. The vessel forced her way about one-fourth of a mile through ice of the character named above, and there stopped, pending a decision as to the locality of the station. Lieut. Lockwood, sent to examine the bay, reported the place an excellent one for camp, the bay partly clear, but shallow. Lieut. Greely reluctantly decided to settle at Discovery winter quarters; and it was a fortunate decision, for Watercourse Bay was full of pack-ice.

On the 12th the vessel broke her way through two miles of heavy ice, and anchored off the cairn about one hundred yards from shore; the men were divided into two gangs, to work day and night by four hour reliefs, until the general cargo was discharged, which was done in sixty hours. Coal was landed, of which there was about one hundred and forty tons, enough to last two winters without mining any. A house was constructed and quarters necessary for the station. The post was named Fort Conger, in honor of Senator Conger, of Michigan.

It is proper to state, as reported by Lieut. Greely, that a retreat from here southward to Cape Sabine, in case no vessel should reach them in 1882-3, would be safe and practicable; although all but the most important records would

necessarily have to be abandoned; abstracts could and would be made of those left.

In the Reports of the Signal Officer for 1881-82, it is stated that, "the station has supplies for two years; that it was contemplated to be visited in 1882 and 1883, by a seal steamer or other vessel, bearing such supplies and additions to the party as might be deemed needful; and that in case such vessel is unable to reach Lady Franklin Bay in 1882, she will cache a portion of her supplies and all of her letters and despatches at the most northerly point she attains *on the east coast of Grinnell Land*, and establish a small depot of supplies at *Littleton Island*. Notices of the locality of such depots will be left at one or all of the following places, viz: Cape Hawks, Cape Sabine, and Cape Isabella. In case no vessel reaches the permanent station in 1882, the vessel sent in 1883 will remain in Smith's Sound until there is danger of its closing by ice, and, *on leaving will land all her supplies and a party at Littleton Island*, which party will be prepared for a winter's stay, and will be instructed to send sledge parties up *the east side of Grinnell Land* to meet this party. If not visited in 1882, Lieutenant Greely will abandon his station not later than September 1, 1883, and will retreat southward by boat, following closely the *east coast of Grinnell Land*, until the relieving vessel is met or Littleton Island is reached."

Two expeditions were sent out to the relief of Lieut. Greely and his party, while they were stationed on Lady Franklin Bay; one in 1882 and the other in 1883, but both proved failures.

July, 1883, having arrived and still no relief reaching him, Lieut. Greely with his party abandoned the station and retreated southward. Of their sojourn at Fort Conger, on Lady Franklin Bay, during these three years, and their retreat, Lieut. Greely, in his report to the Chief Signal O<sup>fficer</sup>.

cer, giving full details of the explorations made from time to time while so stationed, says :

“ On July 29th the abandonment of the station was announced in orders, to take place on August 8th, or as soon thereafter as practicable.

“ Sergeant Brainard was directed to make an inventory of the stores on hand which were to be abandoned. . . .

“ It was with great reluctance that I decided on the abandonment alive of our dogs. In case we were unsuccessful in our boat journey, as had been Hayes, and Kane (in his first trip), and returned to Conger, these patient, willing laborers would be indispensable to obtain fuel and meat. Several barrels of pork were unheaded and all the barrels of oil opened, so that a couple of months' food could be reached with some difficulty.

“ The ice broke up gradually during the month ; the upper part of Kennedy Channel broke on the 24th. The harbor-ice may be said to have broken up on July 30.

“ The month ended in southerly gales, which did much to break up the harbor-ice in Hall Basin and Robeson Channel. Unfortunately the ice in Archer Fiord remained fast, and no possible chance of crossing it appeared. Every preparation, however, had been made for the abandonment of the station at the earliest moment. With this view, five thousand pounds of carefully screened and selected coal had been bagged and cached on Dutch Island, for use in the launch during the retreat.”

On the first of August, a selected party was told off, with orders to be in readiness for prompt departure for Cape Baird, as it was intended to send to that point at the earliest practicable moment the launch, loaded with coal, provisions, and all the most important collections and records, leaving the main party to follow, when everything important had been transferred. Lieut. Greely says : “ The condition of the party for the coming retreat was of general

health and strength, despite their arduous labors for two years amid unequalled cold and darkness. Of the seven hundred and twenty-one days spent at Fort Conger, two hundred and sixty-eight had been marked by the total absence of the sun. On two hundred and sixty-two days one or more sledge parties had been absent in the field, on journeys entailing from two to sixty days' absence, and some three thousand miles had been traveled by such parties; an unequalled latitude to the north had been attained; to Greenland over a hundred miles of new coast had been added; and to the westward Grinnell Land had been crossed, its exterior surveyed, its physical geography determined, and the contours of its northern half fixed with considerable certainty."

The ice was closely watched from the first of the month, but up to the morning of the 9th no possible chance of crossing Archer Fiord presented itself. About 10 o'clock A. M. the ice on Archer Fiord, though not navigable, from its movements appeared to presage more favorable conditions, and, in order to avail himself of any possible changes, the station was ordered to be abandoned at 1 P. M. of that date. The launch left Dutch Island at 2.30 P. M. and ran to Proteus Point, meeting the small boat from the station, which brought dinner for the party.

On the morning of the 10th they reached Cape Baird. On leaving here they had fifty-five hundred pounds of coal and about fifty days of provisions, with small caches at Carl Ritter Bay and Cape Collinson, which were relied on to carry them to Dobbin Bay, where Greely at least counted on a vessel. Carl Ritter Bay was reached about the 18th, whence the shore was closely followed, until Greely found it prudent to pass further from shore to avoid young ice which might form to such an extent inshore as to make it impossible to ever extricate the launch.

On the 18th the condition of the party was critical.



Lieut. Greely, after describing the condition of the temperature and the tempestuous weather, says: "We met much moving ice, but had a fine run until about 4 A. M. of the 19th, when, stopped by a dense, heavy pack, a secure harbor was found between two grounded bergs. At that point the tides were very heavy, evidently from twelve to fifteen feet in the springs. We were then about eleven miles northeast of Cape Lawrence, and, an opportunity offering at the turn of the tide, about three-quarters of an hour's run was made without much advantage; and to avoid wasting coal, there being much ice, we stopped seven miles north of Cape Lawrence to await more favorable conditions." The account of their progress from this point to Cape Hawks is simply a repetition of startling adventures and great physical trials. Here they found the cache of stores, placed by them two years before, but much of these unfit for use. The report of Lieut. Greely best describes the situation of his party on arriving at Cape Hawks. He says: "I cannot but feel that we are now in a critical situation, not knowing what can be depended on. Since no vessel reached this point in 1882-'83 (to this time) we must all feel an uncertainty as to the party for our relief being at Life Boat Cove. The ice to the southward, as far as the eye could reach from the summit of Washington Irving Island, is now in such a state that any well-provided vessel could easily run through it. If no party is at Life Boat Cove, our situation is exceedingly dangerous. We have, perhaps, sixty days' provisions, except sugar, and beyond that we must depend upon the resources of the country, which are of the most precarious character. However, we shall do as we have done, our utmost, and by some possible chance we may reach Cary Islands."

The party had, unaided, successfully made their way for over two hundred miles of latitude (involving over 400 miles of travel), despite a remarkably early autumn, and

through ice of such character as must be seen for a just appreciation of the dangers and difficulties connected with its successful navigation. Greely says: "Scarcely fifty miles south of us were the cliffs of Cape Sabine, which looked southward to the open North Water, and though unconscious that five weeks before the *Proteus* had sunk in the sea before us, our minds were filled with apprehensions and forebodings as to the future. The condition of affairs seemed alarming; it was evident that no relief vessel could be depended upon; the temperature, which had been for some time below the freezing point, then stood about  $25^{\circ}$ , and the appearance of the young ice foreboded trouble. We had reached a latitude where the sun now set, and the clear sky indicated a decided fall in temperature the coming night. The launch was off Allman Bay, the surface of which consisted of water substantially fresh, derived from John Evans' glacier. Only four days later in 1876, with a similar temperature, newly formed ice had been found in this bay by Sir George Nares, from one to three inches in thickness. Through this ice the *Discovery* had forced its way only with difficulty, and its passage by a small launch would be manifestly impossible. But four hundred pounds of coal remained for steaming purposes.

"In consequence of these conditions it seemed imperative for me to keep off the coast and endeavor to reach by a direct course Victoria Head, only about 18 miles, or four hour's run, distant. In order to avail myself of the best nautical experience of the expedition, Sergeant Rice, who was in charge of the whale-boat, was called forward to steer and assist in running the launch. He was a man of excellent judgment, accustomed to boats from boyhood, and had experience for over a year in the management of coasting vessels.

"After leaving the coast the outside ice opened somewhat and considerable progress was made to the south and east-

ward. It was the opinion of Sergeant Rice and the acute Eskimo Jens, that if we could have advanced a mile farther to a large floe-berg, we could have gone southward without difficulty.

"The temperature fell that night to  $18^{\circ}$ , and young ice formed between the floes of sufficient thickness to bear a man in places. The morning of the 22d found us beset beyond a doubt, in about longitude  $73^{\circ} 30'$  W., and  $79^{\circ} 21.5'$  N. I stated to the party that at the worst we could reasonably expect within the next thirty days to drift into Smith Sound, and in so doing must pass within eight or ten miles of the coast.

"On the 28th a proposition was made to put the party on reduced rations, which I thought unadvisable until such action was imperative, in view of the depressing effect it would naturally have upon the party.

"The temperature sank to  $12.5^{\circ}$  on the night of the 28th and to  $10^{\circ}$  on the morning of the 30th, the lowest temperature ever recorded in August. On the 31st, we were in about latitude  $79^{\circ} 19'$  N., our position indicating a slight movement of the pack to the southward.

"An inventory of stores the preceding day showed that we had provisions for fifty days, except tea and coffee for forty days. The men at that time were generally well, although suffering much discomfort from their inactive condition and continued cold weather. An issue of three-eighths of a gill of rum was made that evening, and was continued on alternate days thereafter, when thought necessary."

September 10th was the latest limit to which Lieut. Greely was willing to await the action of the spring tides and heavy winds to break up the floes. In this Lieut. Lockwood concurred.

On September 1st, the young ice was broken up by the strong tide during calm weather, and the movement of the

floes, catching the launch, raised her entirely out of the water (fortunately without injury), where she remained for several hours. The ice showed a tendency that evening to separate, and considerable open water was seen as far as the fog would permit—some three hundred yards—which unfortunately ran east and west. Lieut. Greely was advised to attempt a movement, but considered it insanity to attempt to change the position of four boats in such a dense fog, with the heaviest tide of the month coming on. The prudence of the lieutenant's decision was shown a couple of hours afterwards, at the change of the tide, when the pack closed suddenly and violently, and lifted the launch bodily out of the water three or four different times. When morning came not a pool of water could be seen.

From the 1st to the 8th, the party did little more than drift. On the morning of the latter day, Lieut. Greely says he "visited a large floe-berg, which was half a mile long and a quarter of a mile wide, with an average elevation of eighty feet. An excellent view to the south showed only densely packed ice, except a narrow lane, probably about four hundred yards wide, running south a few hundred yards from Cape Camperdown. The natives declared the ice to the west, in Buchanan Strait, to be that of the previous year, and that it had never broken up. With a glass I examined the ice carefully for sledging, and the best route seemed to coincide with the direction of the nearest land, Cocked-Hat Island."

On September 9th, the latitude having been unchanged since the 6th, the party was called together by Greely and notified that a start would be made on the following day by sledge for Cocked-Hat Island. Preparations were at once made. Records were left in the launch *Lady Greely* and the jolly-boat *Valorous*, now to be abandoned, setting forth the condition of the party and the intention of reaching Littleton Island, and possibly Cary Islands, if practicable.

September 10th broke with a northeasterly snow storm, which delayed their moving until afternoon. One man was sent forward to select the route in advance. The party started with three sledges, the first, the twelve-man sledge, dragged by Greely and thirteen others; Lieut. Kislingbury with five others dragging the six-man sledge; sergeant Jewell and three others, the four-man sledge. Both the small sledges broke down the first day, and the four-man sledge was abandoned. The six-man sledge was repaired and used subsequently.

At starting, the estimated distance of Cocked-Hat Island was eleven miles. On the 11th it was estimated at about eight and a half miles. Greely says: "We made good about two miles due south on the 12th. At noon of the 13th we were in latitude  $78^{\circ} 56.9' N.$ , with extremely divergent opinions as to our distance from Cocked-Hat Island; it being variously estimated from four to ten miles by the party; the astronomer and I believed it to be about eight statute miles. By the map we were six miles of latitude to the north of the island and nine miles due north of Camp Clay.

"On the 14th our latitude was estimated anywhere from  $78^{\circ} 54'$  to  $78^{\circ} 56'$ . But to our dismay after a hard day's work, a marked movement of the pack towards the northeast was discovered in the afternoon, caused by a southwest storm, which set us off to the northeast.

"At noon of the 15th we were in  $79^{\circ} 1.8' N.$ , over a mile north of the latitude in which the launch was abandoned, and at a greater distance from land than we had ever been. The southwest gale had driven us into the middle of Kane Sea, to a point twelve to fifteen miles east of Cape Albert. On the evening of the 15th we were seventeen miles northeast of Cocked-Hat Island, on the Littleton Island meridian."

From the 15th to the evening of the 28th, the details of



the drifting party's experiences exhibit a series of most trying and uncomfortable positions, varied with sore disappointments and many gloomy forebodings as to their ultimate safety. On the evening of the 28th, however, they succeeded in reaching by extraordinary efforts a point where land seemed a certainty. At 5.20 P. M., the first boat, in charge of Lieut. Lockwood, reached shore, followed by the last party under Greely two hours later. The land appeared to be a point immediately south of Leffert Glacier, several miles above Wade Point, and was named Eskimo Point by Lieut. Greely.

On October 2d, a site having been selected south of Alfred Newton Glacier for building, the party was moved over and the work of building winter quarters commenced, it being too late in the season to delay longer, as the sun would quit them in about three weeks.

In speaking of the party at this time, Lieut. Greely says: "The general conduct of the party during the exhausting labor necessary in constructing stone huts, as well as during our dangerous drift on the ice-pack, was exceedingly creditable. It was but natural that great physical sufferings from lack of proper shelter, continued excessive work and insufficient food should react on the mind and cause murmurs and discontent, which at times broke into indiscreet remarks and reflections. This impropriety was only on the part of a few members, and as detailed in the journals of Lieut. Lockwood and Sergeant Brainard. Fortunately the party as a whole was never otherwise than subordinate and united. Such subordination and united action had been our safety in five hundred miles' travel, which had ended in our party of twenty-five landing in health and strength, with records and instruments safe, on the barren coast of Ellesmere Land. This courage, good behavior and loyalty may seem theoretically a matter of course in the common interest, which could be subserved

only by unity and harmony, but when death, starvation and great continued suffering impend, the temptation for the strong to appropriate all and sacrifice the weak is certainly very great."

On arriving at Eskimo Point, Sergeant Rice and Jens had volunteered to make an attempt to reach Cape Sabine on foot. Records were prepared for the cairn at Brevoort Island, and detailed instructions were given the sergeant for this trip. He crossed to Rosse Bay over Alfred Newton Glacier, which was discovered to be practicable by Lieut. Kislingbury while hunting previously. On the 9th, the sergeant returned, bringing encouraging news. He brought the record of Lieut. Garlington, dated July 24th, which informed Greely of the sinking of the *Proteus* on July 23d, and that Garlington and her crew had gone to the east coast to communicate with the U. S. S. *Yantic* or a Swedish steamer. Rice discovered three caches—the English one of 240 rations, the Beebe cache of 240 rations, and the wreck cache, which, from Lieut. Garlington's report, contained 500 rations of bread, sleeping bags, tea and a lot of canned goods. The record further said: "Cache on Littleton Island and boat at Cape Isabella." The words "two hundred and fifty rations" contained in Lieut. Garlington's copy as furnished to the *Proteus* court of inquiry, Lieut. Greely says, were not in the original record.

In speaking of the modification of Lieut. Garlington's record, and his reasons for referring to it, Lieut. Greely says: "The record left had an important bearing upon my subsequent action. The record informed me of the disaster to the *Proteus* and of Lieut. Garlington's positive assurance that everything within the power of man to rescue my party would be done. His declaration that he left for the east coast to endeavor to open up communication, and pointing out that if the *Yantic* failed him a Swedish steamer was possi-

ble, were construed as conveying to one in the strongest terms his fixed determination to return to Cape Sabine if either steamer was fallen in with, and that I could look to him for relief. Two courses, only, were left open to me; one to proceed to Cape Sabine, await possible assistance thus promised, and if it did not come to cross to Littleton Island by sledge as soon as the channel should close.

"The prevailing sentiment of the party plainly favored a movement to Cape Sabine, where all possible help was pledged, and I decided on my own responsibility, to move to that point, reluctantly turning my back to the southern trip which might have involved the entire destruction of the party or have secured its ultimate safety. Had I been plainly told that harmony did not prevail in the *Proteus* party, and that the *Yantic* was a fair-weather ship, not equipped for an Arctic winter, I should certainly have cached my instruments and records and chosen the dangerous journey to the southward. Going to Cape Sabine necessarily rendered the four boats within our reach of no benefit to us, but in the southern trip they would have been invaluable."

On the morning of the 12th the entire party started with all the supplies hauled on two sledges, and about 2 P. M. of the 15th reached the camp selected at or near Cape Sabine. Sergeant Rice and the Eskimo Christiansen, who had gone to Cape Isabella to ascertain whether the *Yantic* had left any supplies, very much to the surprise of the party returned about an hour after they had camped and reported that no whale-boat and only one hundred and forty-four pounds of English meat could be found there. The spirits of the party were generally depressed by this announcement, as the greater number of the men had been confident that some stores must have been landed at Cape Isabella by the *Yantic*. Lieut. Greely, however, had been determined since landing on the coast to base his fortune only on

provisions actually within reach. To this end steps were immediately taken to collect the different caches along the coast and to hauling in the two whale-boats. Many of the stores were found to be spoiled and unfit for use, were condemned by Dr. Pavy, and ordered to be thrown away. However, owing to the ravenous condition of the men, much of it was eaten.

Just here we may observe, that from the statements of Lieut. Greely and the survivors of the expedition, it is shown that the proper supplies for the party had not been cached here, as it had been intended that Lieut. Garlington should, and which matter subsequently was made the subject of investigation by a Naval Board of Inquiry.

The party built a house with little delay. The work of collecting the supplies and building the house was of the most trying character. Half-starved and indifferently clad, these men were subjected almost daily to temperatures at or below zero, from which frequent frost bites resulted.

"Near the end of October," says Lieut. Greely, "I reluctantly decided that it would be advisable to send to Cape Isabella for the hundred and forty-four pounds of English meat cached there. This meat, if obtained, would add two-thirds of an ounce to our rations, which might mean life." Sergeants Rice, Elison and three others were sent on November 2d, the temperature at that time being nine degrees below zero. Of the experiences of these men, the report of Lieut. Greely best explains. He says: "I was awakened at midnight of November 9th and 10th by footsteps, which proved to be those of Lieut. Rice, who informed me that Sergeant Elison was dying. I gathered from his statement that three day's traveling had carried his party to the neighborhood of Cape Isabella, and that, leaving their bags and rations in camp, they visited Isabella and brought to camp the one hundred and forty-four pounds of English beef. On reaching their bags and rations it was

found that Sergeant Elison was seriously frost-bitten, resulting from his continued eating of snow, in handling which his hands had become wet and frozen. After two days' efforts to bring both Elison and the meat in, Sergeant Rice perceived that it was impossible to do so, and, in consequence, the rifle and meat were abandoned in Baird Inlet, while Rice, Linn, and Frederick succeeded in getting Elison to our old camp at Eskimo Point. To save his life it became necessary to cut up a part of the English ice-boat for a fire. With great trouble Elison was thawed out, and as soon as he appeared able to travel they left Eskimo Point for Camp Clay. It was discovered, however, that Elison's powers of resistance to cold were gone, and he froze immediately on the slightest exposure. On reaching the ridge between Baird Inlet and Rosse Bay, they were unable to haul Elison over it. A violent storm prevented them from cooking. Rice and Frederick decided that the only chance of safety was in Rice returning to Camp Clay for assistance, while Frederick and Linn remained in the sleeping-bag to thaw out Elison by the heat of their bodies. Rice had come through from Eskimo Point to Camp Clay in one march and without food, except a bit of frozen meat eaten on the way. He was almost entirely exhausted on his arrival.

"Sergeant Brainard and Christiansen started at 4.30 the morning of the 10th, with medicines and stimulants for Elison's relief. They were followed at 6.30 by Lieut. Lockwood, Dr. Pavy, Jens, Sergeant Jewell, Privates Ellis and Schneider, with the twelve-man sledge. On the evening of the 11th, Linn and Frederick arrived, reporting Elison yet alive. Linn was completely broken down, but Frederick, though greatly exhausted physically, was in a wonderful condition considering his privations. It may be said here that Sergeant Linn never recovered, mentally or



physically, from the effects of this trip, and to his sufferings on this arduous journey I ascribe his early death.

"Sergeant Brainard on reaching the bag found Frederick, Elison, and Linn frozen in. He was unable to extricate them from the bag, and fed them in it. On Lieut. Lockwood's arrival, a few hours later, the men were frozen so solidly in the bag that it became necessary to cut it to pieces with a hatchet in order to release them from their imprisonment.

"Lieut. Lockwood and party arrived with Elison about 10 A. M. of the 12th, having made but one camp during their absence. Their march was a most extraordinary one, considering the previous condition of the men, the complete darkness, and the state of the ice. This half-starved party of eight men made a round trip of about forty miles, in total darkness, and over rough and heavy ice, in forty-four hours, with temperatures ranging from  $-19^{\circ}$  to  $-34.5^{\circ}$ . The remarkable work done by this party appears the more astonishing, in that this was their third winter within the Arctic Circle, that they had been on short rations for over two months, and had been utterly inactive for the previous ten days. In the most willing manner, without a murmur, these men ventured their lives on the mere possibility of rescuing a comrade whom they expected to find dead."

The account of Sergeant Brainard, who had so promptly started out in company with the faithful Christiansen to the relief of Elison, is truly pathetic, and shows the terrible straits in which these men were placed. These are the words from his diary: "The darkness was intense when we started, and Christiansen and myself floundered about among the hummocks and through the deep snow for some time without advancing very far. We stumbled frequently, and often fell on the rubble, receiving serious bruises. The monotony of the tramp was sometimes broken by my dusky companion, who uttered half suppressed English oaths

whenever he fell over a projecting point of ice. About noon we reached the bay and found our three brave comrades huddled together in the one sleeping-bag in a semi-frozen state. Elison was still alive and somewhat better than when Rice had left him. Linn and Frederick were very weak, and both had frozen their faces and extremities quite severely. After much difficulty I succeeded in making a fire in the rocks above them and cooked a meat stew, which they thoroughly relished. Later I made hot and delicious drinks, which gave new life to their attenuated frames, and in a measure restored the sluggish circulation. Elison is a pitiable sight, with his face distorted and frozen, and his limbs ice-like and useless. He repeatedly implored me to kill him that the others might be saved. I tried to assure him with the assurance that we would all escape from these inhospitable shores and return to our homes together, but, shaking his head sadly, he would repeat in a low, pleading voice, 'Please kill me, won't you!'

"I had contemplated placing Elison on the sledge, and with the assistance of Linn and Frederick to haul him back towards Camp Clay until the relief party under Lockwood was met with, but on communicating to them my intentions, they assured me that they could do nothing, in fact they did not believe that they could walk without assistance. There was now but one course left for me to pursue, so making the poor fellows as comfortable as possible I turned back with my faithful ally, Christiansen, to face the howling winds then blowing. When near Rice Strait our eyes were gladdened by the appearance of Lockwood and his party, of Pavy, Jewell, Salor, Schneider and Jens, who had been traveling hard since 6 o'clock this morning. Christiansen and I took our places in the drag-ropes and returned with them to the south side of Rosse Bay, where we camped at 6.10 P. M. The gale has been terrific in its velocity, and considering their weak state it is surprising how the men could

have endured the severe strain while traveling under its influence to-day.

“ We obtained very little sleep during the night, owing to the low temperature and the continuance of the gale. The cook was called at 4.30 A. M., and at 6 o'clock I started forward alone to prepare breakfast for Elison, Linn and Frederick, while the party was to break camp and follow immediately with the sledge. The fellows had not slept during my absence, and when I reached them they were shivering with the cold. It is almost surprising that they survived the cold of last night. They were in a half-starved, half-frozen condition, and the merciless storm had been incessantly beating down on their unprotected covering of buffalo-skin. I stopped for a moment to contemplate the scene. Nothing could be more utterly desolate, dreary, and forsaken than the spot on which those brave fellows were lying. Without shelter save such as was afforded by a small tent-fly, their bag was lying on a narrow terrace only a few feet above the ice-foot and the tides, where it was fully exposed to the fury of the winds. Above them and extending to the summit of the slope was a chaotic wilderness of rocks, through which the winds had carried great quantities of loose snow and heaped it about this place of refuge.”

Brainard then describes the work of relieving these three comrades from their perilous position, and the return march to Camp Clay, dragging the sledge with Elison upon it. In speaking of this occurrence he briefly refers to these inhospitable regions in these words: “ The iron-bound coast, the chaotic masses of pulverized ice at its border, and the weird scene of desolation spreading like a pall about us on every side, heightened and intensified the forbidding aspect of these inhospitable regions, which had never before seemed so utterly devoid of redeeming qualities. A feeling of awe seemed to have taken possession of the party while it

moved forward with its half conscious burden, slowly and in silence.

"After plodding wearily along for hours, we at last reached Camp Clay. Willing hands came to our rescue, and tenderly the sledge was lifted over the ice-foot and placed on firm footing above. Great was the rejoicing over our safe and speedy return. Never before had our wretched hut assumed the bright and cheerful aspect which it now wore, and never before had rough-bearded men evinced more sympathy in feeling and tenderness in action towards a crippled comrade than did our party. Of the condition of the party on arriving, I can only speak of myself. I was probably the strongest; and at no time in my life were my physical powers ever called upon to sustain a trial similar to that of last evening. Even my will-power was wavering, and in another hour I would have probably succumbed to exhaustion and the increasing cold."

The return of the party completed all sledge work, and winter routine commenced. "By the last of November," says Greely, "the party had a full realization of what an Arctic winter, of four sunless months, in a miserable stone hut, with inadequate food and clothing meant." The supply of provisions on hand was such as to compel the lieutenant to cut down the rations to the very lowest minimum in order to make them hold out until March.

January 1st was the earliest day on which any marked signs of weakness became evident. Lieut. Lockwood and Sergeant Cross both showed on that day signs of failing. On the 18th Sergeant Cross died, and was buried on the 19th. An occasional extraordinary allowance of half an ounce of bread or meat was issued to the party towards the end of the month, always with marked benefit to each mentally, if not physically. The month ended with the party in excellent spirits, excepting Lieut. Lockwood who

was very weak ; Ellis and Jewell, who were very despondent, and Eskimo Jens, who was slightly complaining.

On February 2d Sergeant Rice and Eskimo Jens left for Littleton Island. The party in general believed that Lieut. Garlington was at Littleton Island with ample supplies from the Yantic, and consequently they counted on certain help. In this belief, however, Lieut. Greely did not coincide, for certain reasons already stated.

On the 6th Sergeant Rice and the Eskimo Jens again returned to camp, well, but thoroughly exhausted, especially the Eskimo. Rice reported that open water extended from ten miles off of Wade Point, and a mile off of Brevoort Island, as far north into Kane Sea as the eye could reach. At no time was the Greenland shore visible. He thought he had reached a point as far south as Littleton Island, and about ten miles distant.

The first day of March brought the date fixed the previous autumn for crossing Smith Sound. Lieut. Greely says : " We had lived to that time on a ration declared to be impossible for the sustenance of life, only to encounter other misfortunes. Smith Sound was open for miles from Brevoort Island to the eastward and northward, and the party were in such diminished strength from five months' fasting, that the boat could not be moved from the roof of the building by our united efforts. My purpose still held to attempt the crossing by sledges if an ice-bridge only formed, but my hopes in that direction weakened, and later in the month I publicly abandoned all hope of the sound freezing over.

" Spring opened with twenty-four living, of whom twenty-two were yet in health, though very materially reduced in physical strength from the small ration.

" On March 14th I announced that we could live at our present camp four weeks longer on substantially the same ration we were then eating, and while such an arrangement would



leave nothing for crossing Smith's Sound, it would insure our safety if a party at Littleton Island could reach us.

"On the 23d I announced that we could run along on the present ration (as reduced on the 17th) until April 6th, and then by cutting down to three ounces of meat per day, without bread, we could exist until May 1."

Private Long and Jens hunted indefatigably from the 1st to the 5th, during which time Long killed eleven dovekies and two ptarmigans. Sergeant Rice and Corporal Salor continued catching shrimps by nets, bringing in from twelve to thirty pounds daily, until the 7th, when the corporal broke down and Sergeant Brainard was obliged to temporarily take his place.

On the 5th, Christiansen, the Eskimo, died; the first one to die from starvation. On the 6th, the day following, Sergeant Linn died. On the 9th, Lieut. Lockwood died.

On the 11th, Private Long and Eskimo Jens, after following a bear nearly two miles, succeeded in killing him within thirty feet of the open water. The bear was hauled in by the strongest of the party and appeared to promise future safety, as it was believed game could be readily obtained after the 1st of May. "Private Long's success in killing this bear," says Greely, "showed the same nerve and skill which had made him the acknowledged hunter of the expedition. To Long's great patience, iron endurance, and reliable marksmanship were due part of the seals of the previous autumn, the birds of the early spring, and this great addition to our food, which undoubtedly saved the remnant of the party."

Sergeant Jewell died on the 12th. On the 13th Private Frederick returned to camp reporting the death of Sergeant Rice from exhaustion the previous Wednesday in Baird Inlet, some six miles from the old camp at Eskimo Point. He was at the time on an expedition to Baird Inlet to bring up the English meat which had been abandoned there. He had

volunteered for the fatal journey, conscious of the dangers, but was impelled to do so owing to the desperate straits of the party, and in hopes of saving his starving comrades.

The bear killed by Long and Jens on the 11th added so materially to the supplies, that Lieut. Greely commenced on the 14th to issue a pound of meat daily to each man. But notwithstanding this addition the men were growing weaker daily. On the 18th, Dr. Pavy, the surgeon, reported six of the men quite weak. He reported Lieut. Greely's heart in a very bad condition, and that death might result at any moment.

On April 23, the fuel gave out and privates Bender and Henry commenced tearing out the inside of the boat, which had a depressing effect upon the party, as its destruction seemed to foretell the fate of the entire party. It was necessary, however, as the last stearine had been used for cooking on that day, and the seven gallons of alcohol remaining would serve a better purpose as food, and in eking out the meat, bread, and other supplies, of which there remained about three hundred and fifty pounds including shrimps.

On the 27th, Long and Jens were out hunting and while thus engaged Jens was drowned by the cutting of his **Kayak** by young ice. The death of Jens caused great sorrow, because of the strong affection they all had for his great-heartedness, unvarying truthfulness, and strict integrity.

"On the 22th of May," says Lieut. Greely, "after consultation with Sergeant Brainard, I ordered the issue of our last meat and tallow, which included rations for the 15th of May. After the experience of May 3d, it appeared barely possible that one of the worst men of the party might break into the storehouse and appropriate the small quantity of remaining food, hoping thus to save himself at the expense of the others.

"The issue of our last regular food leads me to speak of

Sergeant Brainard's services in that connection. Faithfully and fairly for all our service he issued food and all other supplies. In his equity and even justice all had faith. Personally he made all issues, kept all accounts, and reported to me weekly or otherwise as ordered. His safe and careful estimates of unknown weights of bread and meat were of incalculable benefit in the spring. The scores of pounds which these estimated supplies overran were sure testimony as to what I firmly believe, that in all that terrible winter no ounce of unauthorized food passed his lips. In less loyal and more unscrupulous hands these gains would never have been reported. That a starving man for months could handle daily such amounts of food and not take for himself speaks volumes for his moral courage."

On the 19th, Private Ellis died, the first one in the past six weeks. On the 23d he was followed by Sergeant Ralston, an excellent observer and an efficient man in the field.

Dr. Pavy having expressed the opinion that all would die in a few days unless removed from the hut, where the melting snow saturated their clothing and kept them continually cold and wretched, the strength of the party was devoted, on the 22d, to pitching the wall-tent about three hundred yards southeast of the winter hut, on a level, but gravelly spot. The tent was able to hold but a portion of the party, and the strongest were directed to sleep for a time in the hut; but the whole party messed together at the tent. The weakest moved to the tent on the 23d. Private Whisler managed to walk to the tent alone, but became unconscious that evening. Sergeant Israel walked half way, and was hauled the rest of the distance.

Private Whisler died on the 24th.

Sergeant Israel weakened gradually, and on the 27th he died very easily. He had been a most valuable man to the expedition in its scientific work, and earnestly desired field service despite his slender and weak physique.

On June 1st, Lieut. Kislingbury died. He was an earnest, hard-working officer, and had attained an excellent reputation, particularly for detached service in the field in connection with Indian scouts. The qualities which insured success there, perhaps, caused him to chafe under restraint incident to service where his work and actions were strictly limited. He was a successful hunter, a man of very fine physique, and never spared himself any personal exertion which would add to the personal comfort or pleasure of others. He worked hard and manfully during the retreat and subsequent life at Cape Sabine.

Corporal Salor became delirious on the 2d, and died on the 3d. Dr. Pavy, also very weak, became slightly delirious on this day; and although better mentally on the 4th, he drank the contents of a vial of ergot, probably by mistake. The doctor died at 6 P. M., on the 6th, his death possibly hastened by the ergot.

To show the terrible straits to which these men were reduced, we quote Lieut. Greely at this point:

“On the 4th Long succeeded in obtaining one dovekie out of seven killed. I ordered the dovekie to be issued to the hunters, who could barely walk. Bender begged, with tears, for his twelfth, which I finally gave him, though some of the party urged strongly that he should not have it. There was some feeling over this point after Bender's allowance was given him. I informed Bender that the hunters must be kept on their feet, and unless they were kept in such condition as to obtain shrimps and game the party must inevitably perish. I also informed Sergeant Long that in case he feared trouble over the division of any bird brought in he had best retain and eat his share of the game, as his strength must be maintained.”

Private Bender became weaker on the 5th, and died on the 6th.

On the 4th and 5th Private Henry had been detected in

stealing from the stores, and although frequently warned by Lieut. Greely on previous occasions, still persisted. Orders had been given to watch him, and if caught in the act of stealing, to shoot him. On the 5th he was shot, and the stolen property was found upon his person. Every one of the party, without exception, acknowledged that his fate was merited.

"On the 6th," says Greely, "we commenced eating a great deal of a large black lichen, which the doctor had said was injurious. These lichens proved very palatable and nutritious, and were regularly gathered thereafter. Gardiner, Schneider, and Elison were then helpless. I could only drag myself fifty yards from the tent to rocks where I could hunt these lichens. Biederbeck and Connell could go farther, though very weak and feeble.

"On the morning of the 7th all the shrimps on hand were eaten for breakfast, the first time we were without a supply of them, and we commenced that evening on seal-skin stews from boot-soles.

"On the 8th a bunch of purple saxifrage was found in full bloom, the first specimen since May 21st. Long was sick on the 9th—his 32nd birthday—and could not hunt. A spoonful of our last gill of brandy was given him for his birthday.

"On the 10th a dovekie was brought in, which went to the hunters, although there were some unpleasant remarks about it. I urged that the end should be met decently.

"About that time in Sergeant Gardiner's case inflammation of the bowels set in, owing to excessive constipation, and on the 12th he died.

"On the 12th of June, a distress-signal was erected by Sergeant Brainard on the adjacent cliffs, it being, as my memory then served me, the average date of the whalers reaching North Water. On the 13th my seal-skin jumper, reserved for shrimp bait, was divided between the party and



eaten roasted; and the oil-tanned covering on my sleeping-bag was cut off and divided between the party on that and the following day.

“On the 15th the hunters, who had been eating such lichens as they could gather while out, owing to comments, decided to put in the general mess all they collected. The same day Private Schneider piteously begged for opium pills to end his life; but Steward Biederbeck concealed them, to avert any possible consequences. On the 16th Sergeant Brainard collected his last shrimps, his nets being carried away by the ice breaking up. The amount collected in June had only been forty-four pounds. On the 18th Schneider, who had gradually become weaker and been helpless for some time, died.”

While these men were thus undergoing the rigors of the extreme cold and suffering the pangs of hunger unto starvation on these bleak and inhospitable shores during the winter of 1883-4 and the following spring, the United States Government was making, expeditiously, preparations for their relief. A staunch government vessel was equipped, and under command of Captain Schley, with Lieut. Emory, and Chief Engineer Melville, men with previous Arctic experience, was sent forward early in the spring to the relief of the Greely party. Commander Schley, with remarkable energy and daring, pushed his vessel through the dangerous storms and heavy spring gales of Melville Bay, feeling that every moment of time gained meant succor to comrades in sore distress. The result fully demonstrated that the unusual energy and daring displayed had not been misspent. When the Greely expedition was found, what was left of it, by Commander Schley, it had been without food or water or a day and a half, save an ounce or so of half-boiled or roasted oil-tanned seal-skin, which each man had by him. For two days and a half previously they had experienced the violence of a heavy gale, which had blown down the

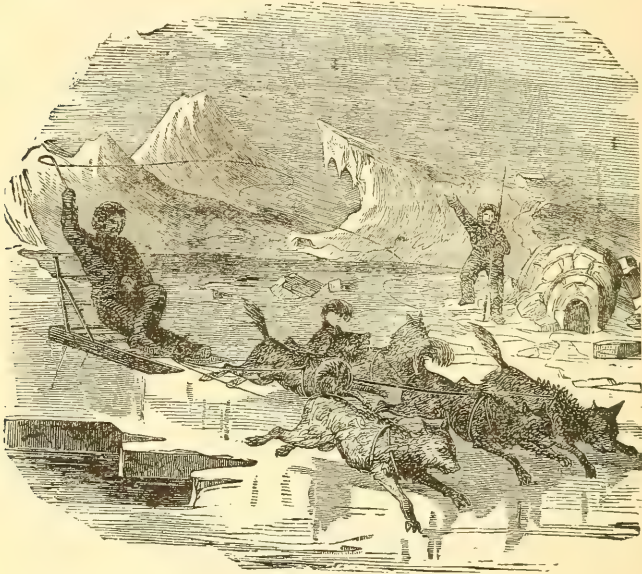
tent and the heavy canvas pinned Sergeants Brainard, Long, and Lieut. Greely to the ground. Connell was but half conscious, and another day would have seen the death of several more.

From the officers of the relief party these men received the most careful and considerate kindnesses, not such as come in the mere line of their official duty, but such as spring from men's hearts when moved by pity and compassion. The watchful skill and unceasing attentions of Doctors Green and Ames insured the building up of the faint spark of vitality which remained. Less firmness and attention might easily have proved fatal.

The news of the rescue, when it reached the United States, created considerable stir in the public mind, and later, when the full details of the sad experiences of these men were published through the press, the warm sympathies of their countrymen were deeply aroused. All honor was accorded for the noble sacrifices which had been made by these men in the interests of science. Public receptions were given and generous ovations tendered on all sides to the survivors. Both the President and the Secretary of the Navy, in behalf of themselves and the nation, gratefully expressed thanks for the work which their hands had wrought, in the interests of science and in geographical discovery.

We cannot more fittingly close this narrative of the Lady Franklin Bay Expedition, than in the words of its noble commander, when he speaks of the dead. He says: "I should be unjust to the dead did I not call attention to their arduous labors, heroic endurance, and unflinching determination which advanced the national ensign to an unparalleled latitude, carried out the programme of international scientific observations, increased perhaps in an unequaled degree in this century our knowledge of the physical characteristics and configurations of Polar lands, and who, more than all,

in perhaps the most successful Arctic boat journey of the age, brought safely, at the price of great bodily suffering and diminished chances of life, through a dense Polar pack, their records to a point whence they would eventually reach the world. They died for that end, and should not be forgotten."

























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